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STATISTICS OF WISCONSIN PUBLIC UTILITIES

1984-1983-1982

ELECTRIC, GAS, TELEPHONE
WATER AND HEATING UTILITIES

PUBLIC SERVICE COMMISSION OF WISCONSIN
Accounts and Finance Division

Bulletin No. 8

November, 1985

STATISTICS OF WISCONSIN PUBLIC UTILITIES

1984-1983-1982

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STATISTICS OF WISCONSIN PUBLIC UTILITIES

This bulletin presents a statistical summary of public utilities operating in Wisconsin during the period 1984-1982 inclusive. In addition, selected data over longer periods are shown in the text or portrayed in the charts. Some Wisconsin utilities have operations outside the State. These operations are generally excluded from the summaries but this was not possible in the case of financial data shown in Tables 1, 2, and 3.

The following table gives an indication of the relative importance of various utility services included in the report.

	Year Ending December 31, 1984		
	Average Number of Customers*#	Operating Revenues*	Net Operating Revenues*
Electric	1,897,493	$2,454,181,310	$387,179,115
Gas	1,092,449	1,638,846,242	69,064,425
Telephone	2,215,967	1,296,318,475	228,953,942
Water	970,839	169,781,272	30,628,046
Heating	686	12,322,975	1,537,986
		$5,571,430,274	$717,363,514

* Excludes out-of-state operations.
\# Ultimate consumers.

Chart 1 presents a comparison of trends in gross operating revenue since 1975. Gas utility revenues continue to have the greatest rate of growth with an increase of 3.4 times in 9 years. Electric and telephone revenues increased 2.6 and 2.4 times respectively while water revenues rose 2.1 times during the 9-year period.

Chart 2 shows that since 1975, net operating telephone revenues have risen 2.2 times, electric revenues 2.4 times, water revenues 3.0 times, and gas revenues 1.7 times.

CHART 1
COMPARATIVE TRENDS OF OPERATING REVENUES

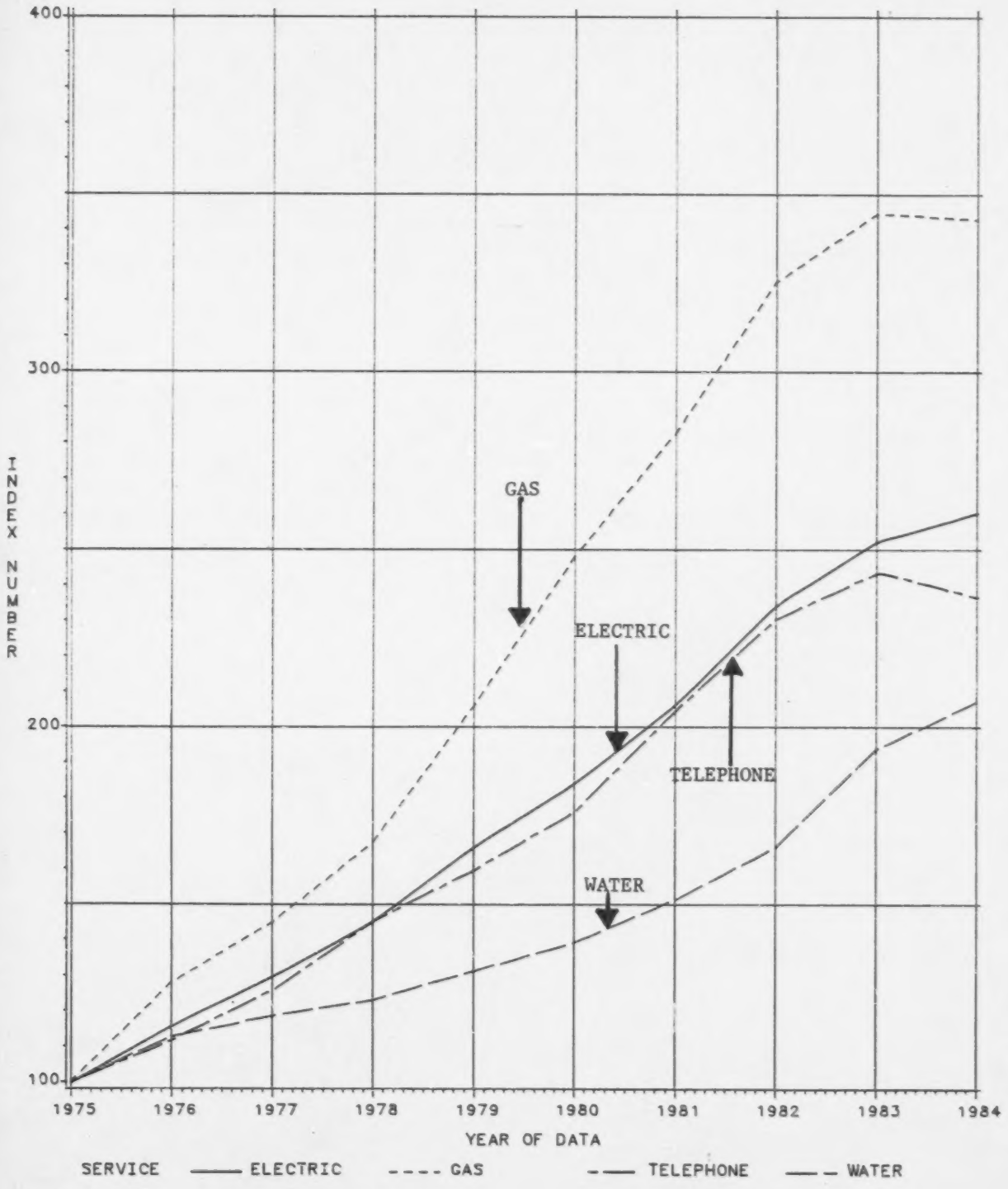
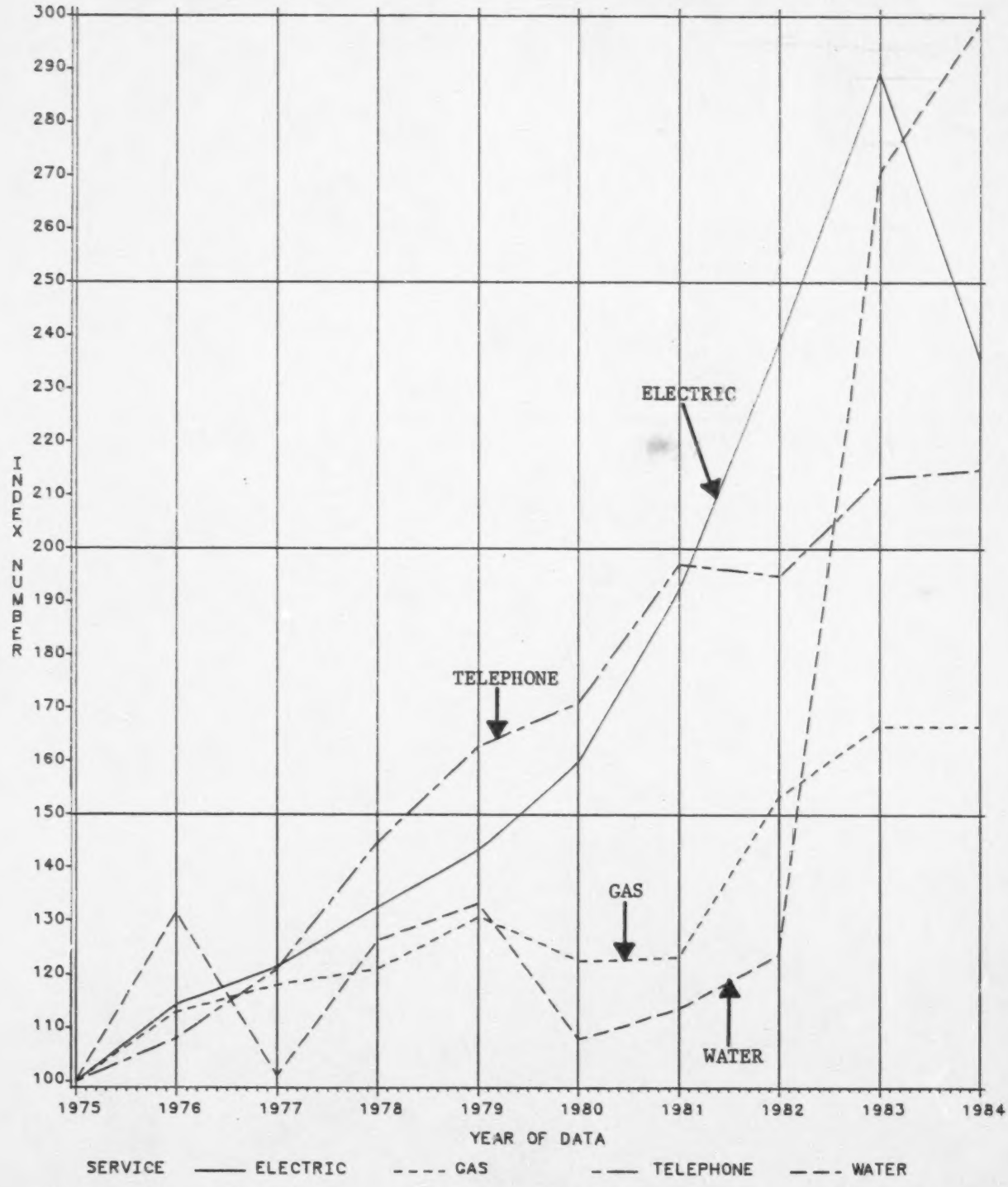


CHART 2
COMPARATIVE TRENDS OF NET OPERATING REVENUES



The number of public utilities operating in the State as of December 31, 1984 is summarized below. These figures include all utilities regardless of size.

	Total	Private	Municipal
Electric	97	13	84
Gas	16	15	1
Telephone	99*	99*	0
Water	553	13	540
Heating	3	2	1
Total	768	142	626

* There are 2 roadway companies, 21 radio-telephone service companies and 24 resellers companies which are not included in these totals. Two Illinois based utilities that serve a few customers in Wisconsin are not included also.

FINANCIAL STATISTICS

Statistics on plant investment, capitalization and disposition of income are presented in this section of the bulletin. These data necessarily include all operations of Wisconsin utilities, including out-of-state operations of those utilities operating in neighboring states.

A number of municipalities include nonutility sewer operations in their water utility reports. Figures on income and capitalization reflect these operations when reported. It is to be emphasized, however, that sewer coverage presented herein is by no means complete since many municipalities operate their non-utility sewer departments independently and do not report those operations.

Utility Plant in Service and Accumulated Provisions for Depreciation:
Table 1 presents a summary of utility plant in service and accumulated provisions for depreciation of Wisconsin utilities during the period from 1982 through 1984. Charts 3, 4 and 5 show similar data in graphic form over the past 9 years.

About $10.9 billion are invested in utility plant by Wisconsin utilities. Of this amount, electric plant makes up 46.7% with telephone, water and gas plant amounting to 30.6%, 10.6% and 10.1% respectively. Sewer and heating plant make up another 2.0%.

Electric cooperatives and companies engaged in intrastate transmission of natural gas do not fall under the jurisdiction of the Wisconsin Public Service Commission and therefore, data covering these companies are not included in this study. Electric cooperatives did have gross plant investment in Wisconsin of about $723 million as of December 31, 1984. Gas pipeline companies had about $246.9 million in gross plant as of the same date.

Except for water and sewer service, public utility operations in Wisconsin are predominantly under private management. For example, municipalities own and operate 98% of the total water plant but only 4% of the electric plant, about 0.05% of the gas distribution plant and no telephone plant.

As of December 31, 1984, Wisconsin electric utilities had accumulated provisions for depreciation equal to 48% of electric plant in service. Telephone utilities had accumulated 32%, water utilities 21% and gas utilities 44%. The comparable figures in 1975 were 32%, 22%, 19% and 27% respectively.

Charts 3, 4 and 5 show that utility plant in service has increased steadily over the past 9 years. Electric utility plant has increased 73% since 1975. Telephone plant is up 94% while water and gas plant increased 62% and 48% for the period.

Capitalization:
Capitalization of public utilities in Wisconsin is summarized in Table 2 and Charts 6 and 7. Total capitalization was about $7,651 million in 1984. Of that amount 80% was accounted for by private utilities with the remaining 20% being municipal investment.

Total capitalization was up 0.8% over 1983, and 56% over the past 10 years. Corresponding figures are (0.5)% and 51% for private utilities and 7% and 85% for municipals. Charts 6 and 7 give graphic representation of these figures.

CHART 3
UTILITY PLANT IN SERVICE AND ACCUMULATED PROVISION FOR DEPRECIATION ELECTRIC UTILITIES

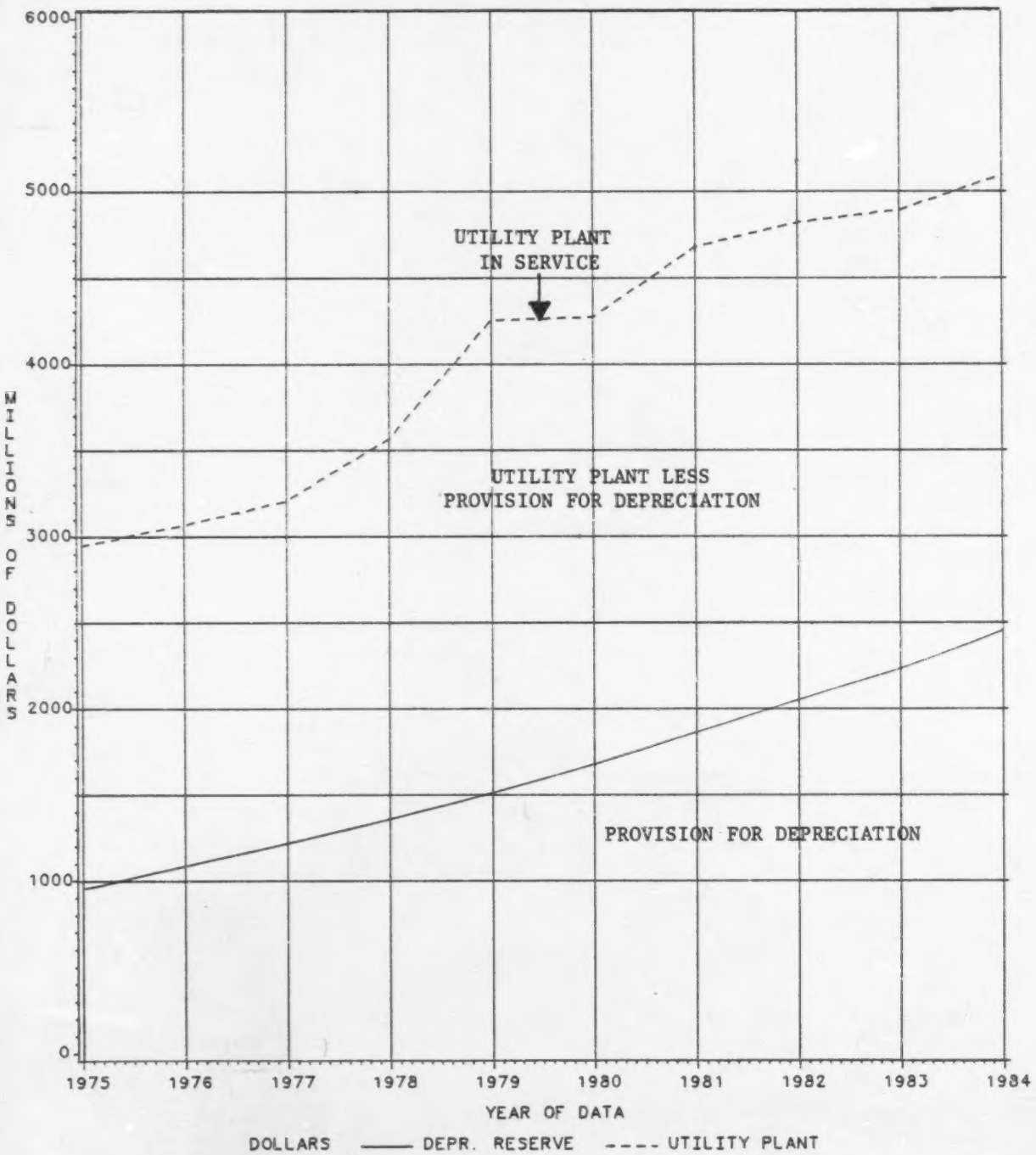


CHART 4
UTILITY PLANT IN SERVICE AND ACCUMULATED PROVISION FOR DEPRECIATION TELEPHONE UTILITIES

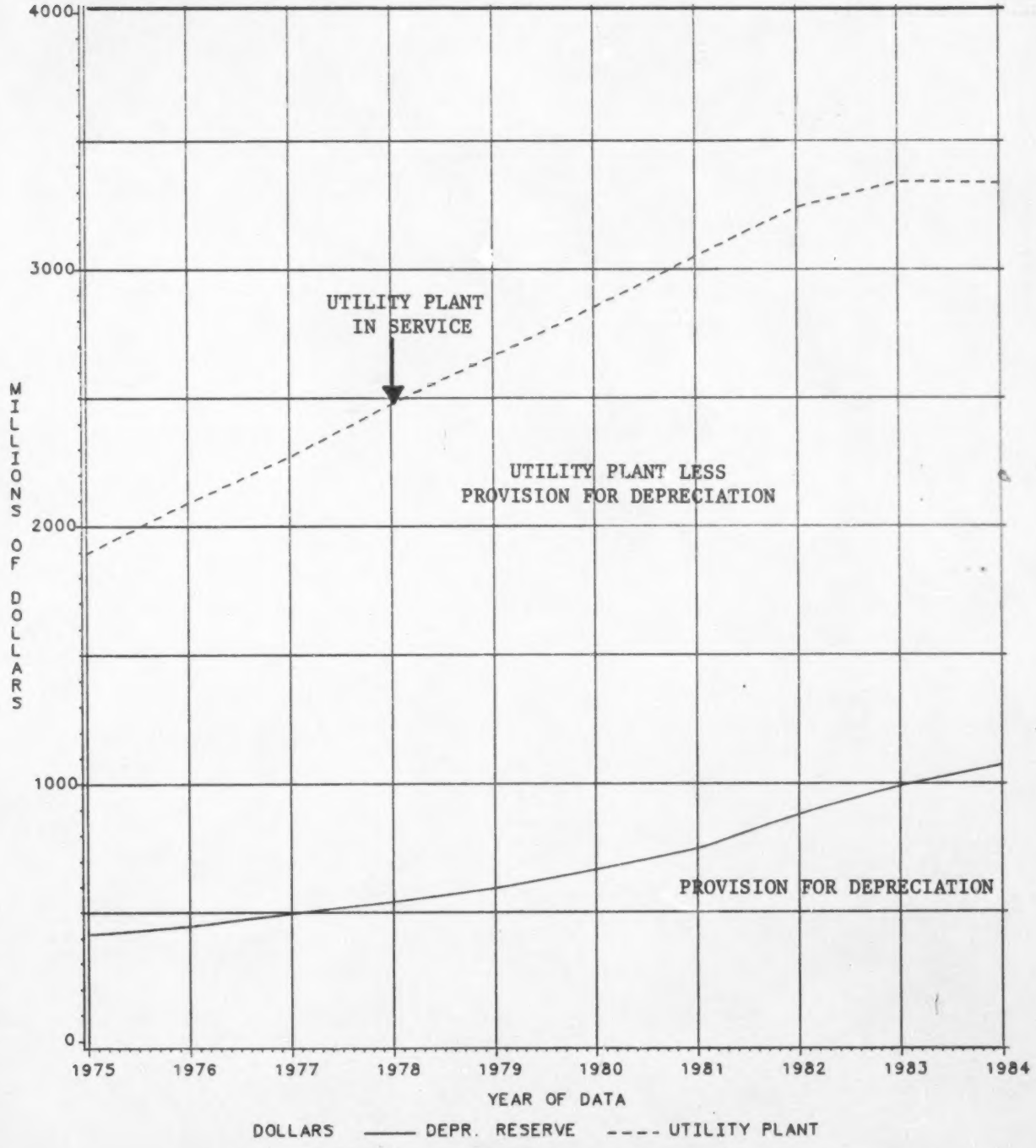


CHART 5
UTILITY PLANT IN SERVICE AND ACCUMULATED PROVISION FOR DEPRECIATION WATER UTILITIES

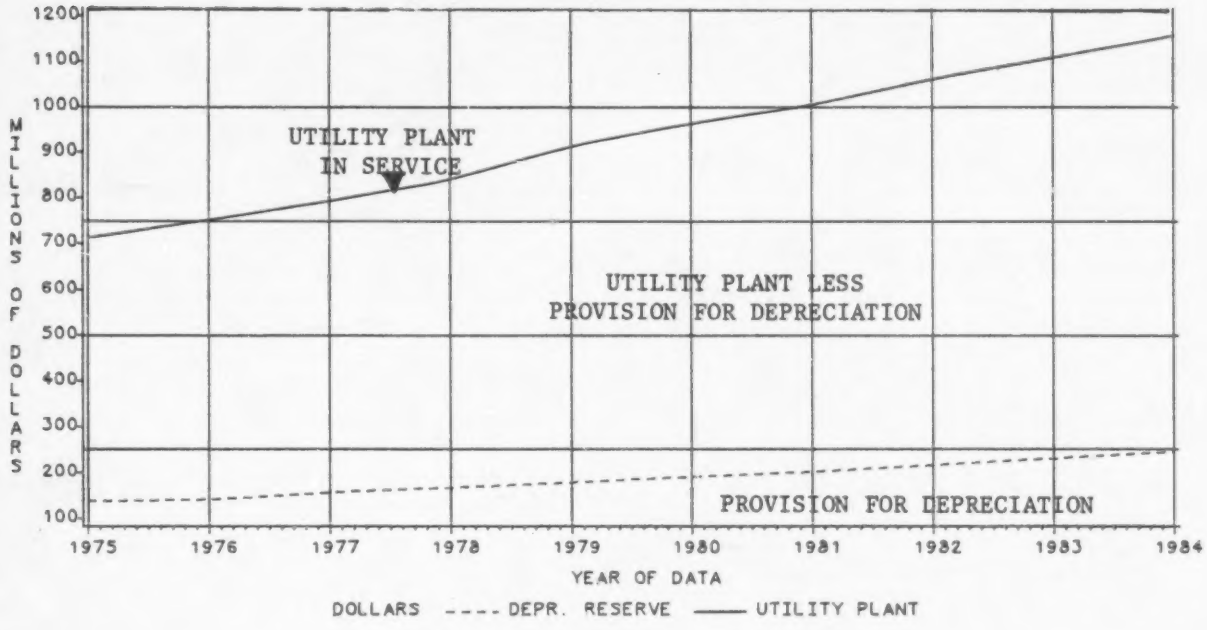


CHART 5
UTILITY PLANT IN SERVICE AND ACCUMULATED PROVISION FOR DEPRECIATION GAS UTILITIES

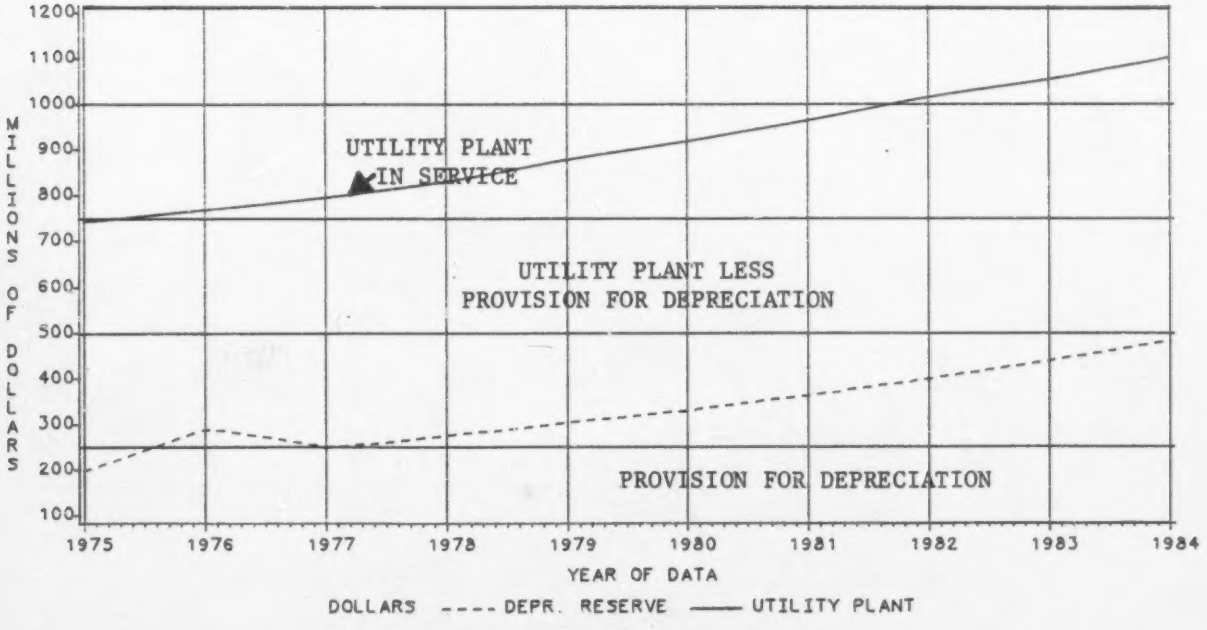


CHART 6
CAPITALIZATION OF PRIVATE UTILITIES OPERATING IN WISCONSIN

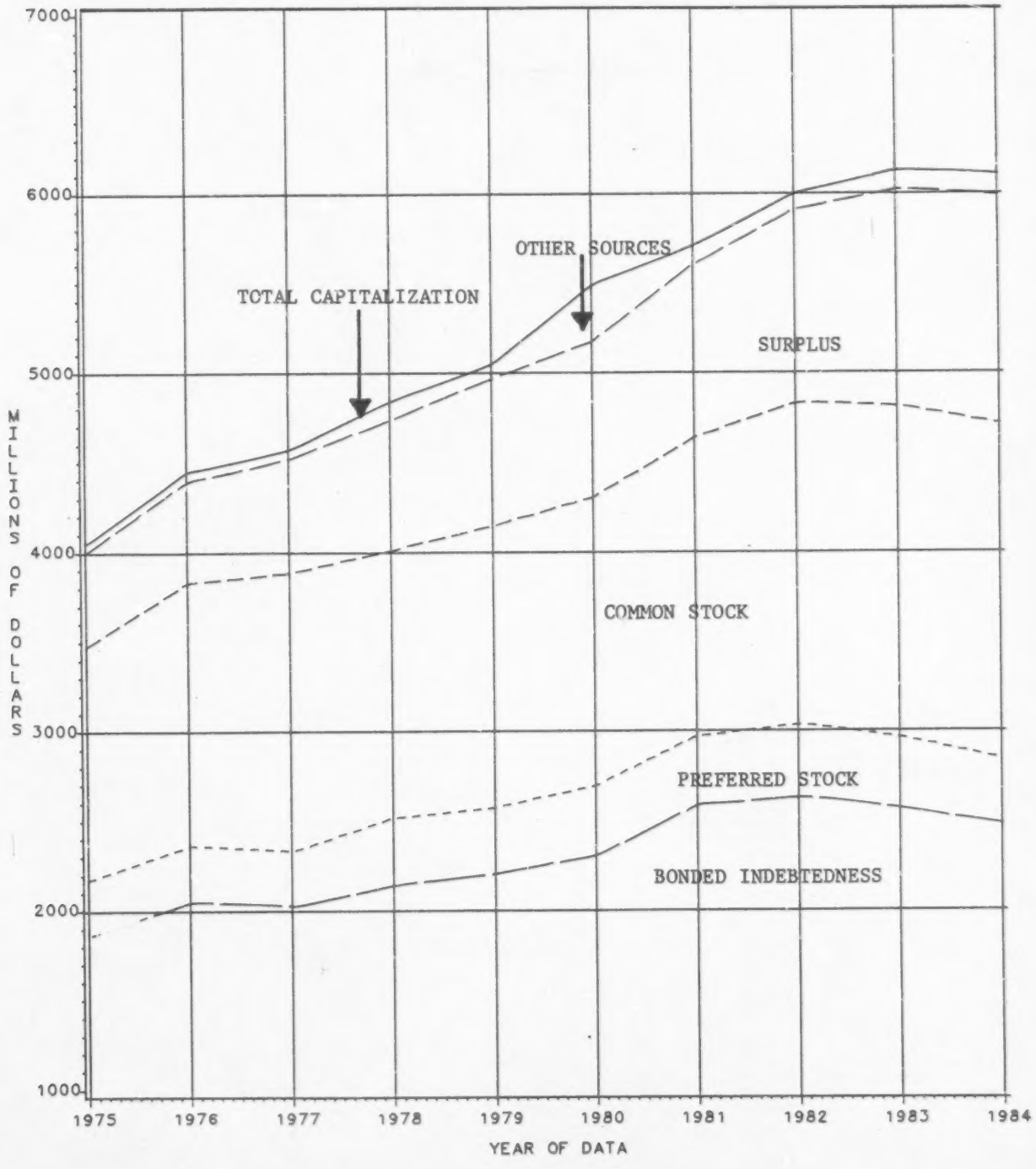


CHART 7
CAPITALIZATION OF MUNICIPAL UTILITIES OPERATING IN WISCONSIN

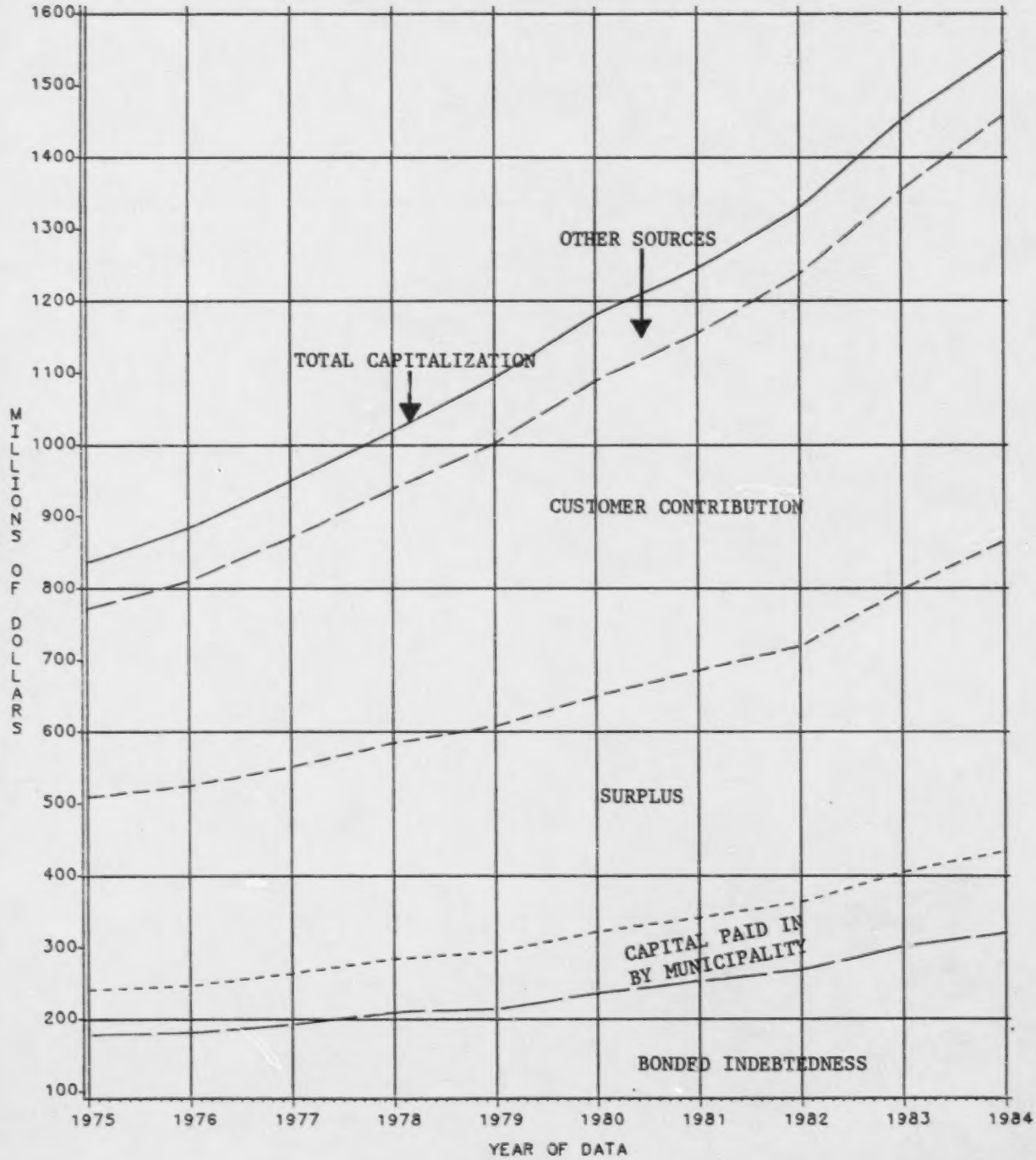


Chart 6 further shows bonds and common stock continue to be the largest source of capital for private utilities. Surplus also contributes a substantial share of total capitalization.

As shown below, Contributions in Aid of Construction is the largest item of municipal utility Capitalization. Surplus and Bonded Debt are next in size Capital Paid in by Municipalities was only about 7.3% of the total at the end of 1984.

A comparison of the capitalization of private and municipal utilities as of December 31, 1984 is presented below:

	Private Utilities	Municipal Utilities
Bonded Indebtedness	40.6%	20.8%
Common Stock or Capital Paid in by Municipality	30.7	7.3
Preferred Stock	5.9	0.0
Surplus	20.9	28.0
Advances from Affiliates or Municipalities	0.1	5.6
Contributions in Aid of Construction	1.6	38.1
Customer Advances in Aid of Construction	0.2	0.2
Total	100.0%	100.0%

Disposition of Income

The term "gross income" as used here, is a net figure representing total income available to meet interest payments, dividends and similar items. The disposition of gross income is summarized in Table 3 and Charts 8 and 9.

Total gross income of private utilities in Wisconsin totaled $748.3 million in 1984, 2.6% above the preceding year. Interest and related deductions absorbed $227.8 million, preferred stock dividends $29.8 million, dividends on common stock $310.2 million, and $180.4 million were carried to surplus.

Municipal utilities had $62.8 million in gross income in 1984, up 11.9% from the preceding year. Interest and related charges amounted to $26.3 million, $900 thousand were appropriated to municipalities, and $35.6 million were carried to surplus.

Payments during 1984 on each class of security or equity, expressed as a percent of average book values at the beginning and close of the year are compared below:

	Private Utilities	Municipal Utilities
Interest on Long-Term Debt Divided by Long-Term Debt	8.06%	6.24%
Perferred Stock Dividends Divided by Preferred Stocks	8.23	0.00
Common Stock Dividends Divided by Common Stock	16.57	0.00
Appropriations to City Divided by Capital Paid in by Municipality	0.0	0.80
Common Stock Dividends Divided by Common Stock Plus Surplus	9.86	0.00
Appropriations to City Divided by Capital Paid in by Municipality Plus Surplus	0.00	0.16

CHART 8
DISPOSITION OF GROSS INCOME
PRIVATE UTILITIES OPERATING IN WISCONSIN

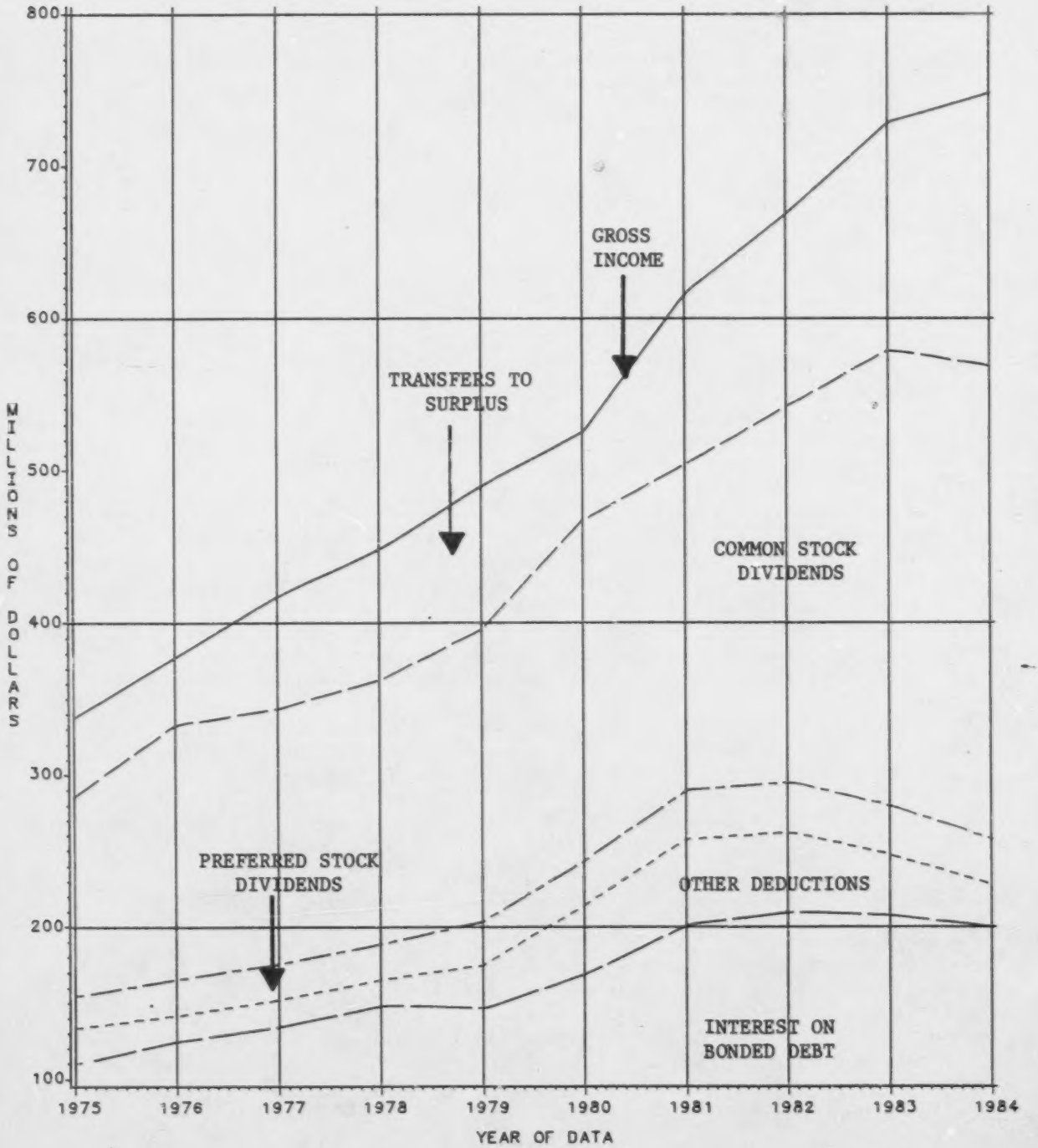


CHART 9
DISPOSITION OF GROSS INCOME
MUNICIPAL UTILITIES OPERATING IN WISCONSIN

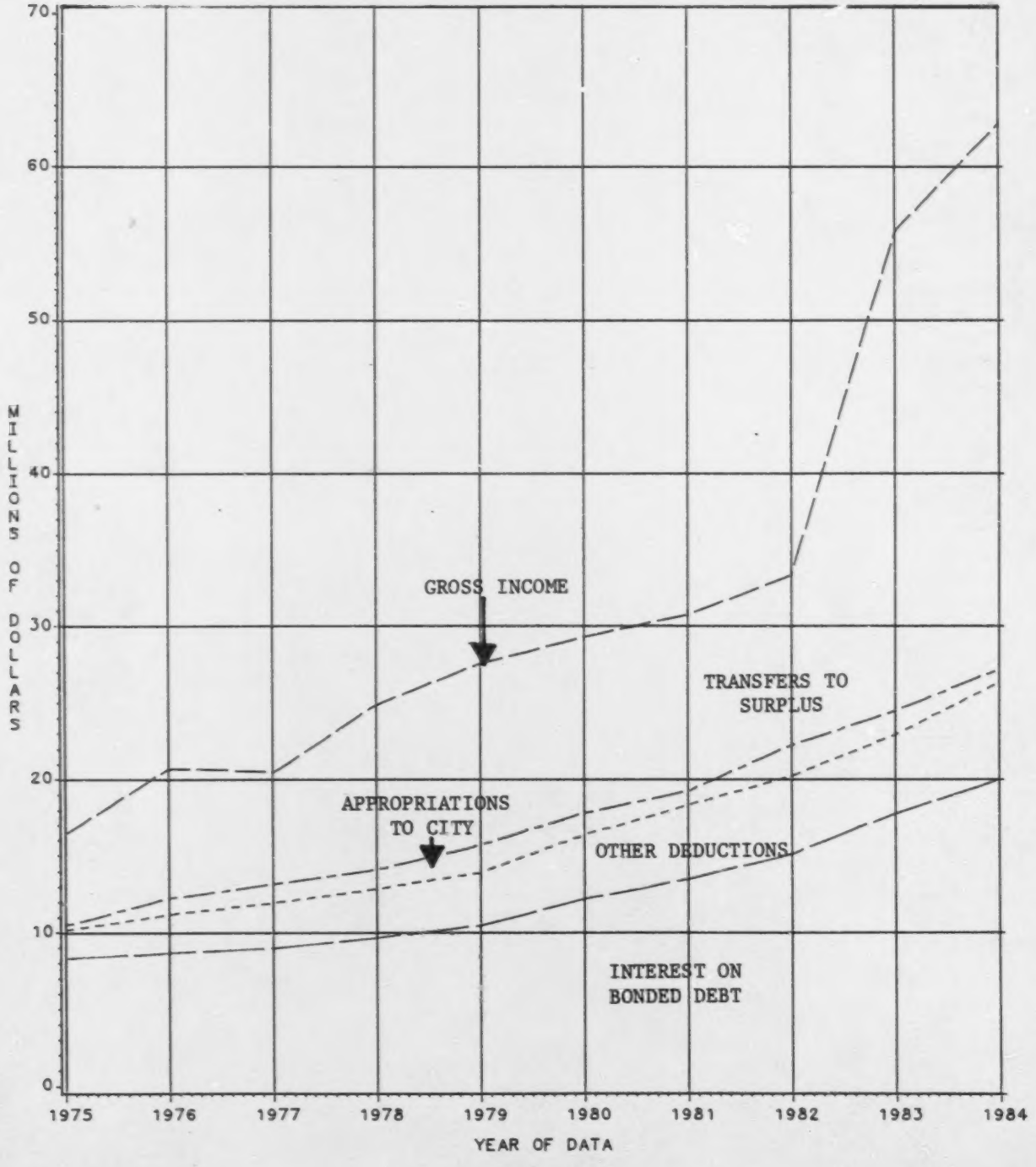


TABLE 1
SUMMARY OF UTILITY PLANT IN SERVICE AND
ACCUMULATED PROVISION FOR DEPRECIATION
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1984-1982

	Dec. 31, 1984	Dec. 31, 1983	Dec. 31, 1982
All Utilities			
Utility Plant in Service 2/ 3/			
Electric	$ 5,096,541,627	$ 4,895,296,087	$ 4,824,927,236
Gas	1,102,299,899	1,054,928,480	1,016,150,114
Water	1,155,945,181	1,109,973,005	1,062,444,803
Sewer	191,559,192	183,880,145	163,342,993
Telephone	3,333,427,954	3,342,973,989	3,242,796,323
Heating	21,133,591	21,053,317	19,670,797
Total	$10,900,907,444	$10,608,105,023	$10,329,332,266
Accumulated Provision for Depreciation 2/ 3/			
Electric	$ 2,455,053,864	$ 2,233,787,948	$ 2,054,489,849
Gas	483,319,376	440,261,716	400,719,443
Water	247,785,262	232,576,877	218,550,587
Sewer	26,728,087	23,362,131	20,855,364
Telephone	1,074,457,991	993,207,337	881,575,212
Heating	9,968,155	9,282,033	8,751,007
Total	$ 4,297,312,735	$ 3,932,478,042	$ 3,584,941,462
Utility Plant Less Provision For Depreciation 2/ 3/			
Electric	$ 2,641,487,763	$ 2,661,508,139	$ 2,770,437,387
Gas	618,980,523	614,666,764	615,430,671
Water	908,159,919	877,396,128	843,894,216
Sewer	164,831,105	160,518,014	142,487,629
Telephone	2,258,969,963	2,349,766,652	2,361,221,111
Heating	11,165,436	11,771,284	10,919,790
Total	$ 6,603,594,709	$ 6,675,626,981	$ 6,744,390,804
Private Utilities			
Utility Plant in Service 2/ 3/			
Electric	$ 4,864,313,138	$ 4,675,553,298	$ 4,614,306,639
Gas	1,101,707,722	1,054,353,883	1,015,591,166
Water	20,363,053	19,845,947	20,058,138
Sewer	0	145,897	145,897
Telephone	3,333,427,954	3,342,973,989	3,242,796,323
Heating	20,826,651	20,750,165	19,579,089
Total	$ 9,340,638,518	$ 9,113,623,179	$ 8,912,477,252

TABLE 1 (Concluded)

SUMMARY OF UTILITY PLANT IN SERVICE AND
ACCUMULATED PROVISION FOR DEPRECIATION
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1984-1982

	Dec. 31,1984	Dec. 31, 1983	Dec. 31, 1982
Private Utilities (Cont.)			
Accumulated Provision for Depreciation 2/ 3/			
Electric	$ 2,348,174,673	$ 2,133,161,666	$ 1,961,053,521
Gas	483,099,107	440,059,531	400,535,001
Water	6,098,037	5,621,527	5,150,296
Sewer	0	59,418	56,774
Telephone	1,074,457,991	993,207,337	881,575,212
Heating	9,936,586	9,258,375	8,693,962
Total	$ 3,921,766,394	$ 3,581,367,854	$ 3,257,064,766
Utility Plant Less Provision For Depreciation 2/ 3/			
Electric	$ 2,516,138,465	$ 2,542,391,632	$ 2,653,233,118
Gas	618,608,615	614,294,352	615,056,165
Water	14,265,016	14,224,420	14,907,842
Sewer	0	86,479	89,123
Telephone	2,258,969,963	2,349,766,652	2,361,221,111
Heating	10,890,065	11,491,790	10,885,127
Total	$ 5,418,872,124	$ 5,532,255,325	$ 5,655,412,486
Municipal Utilities			
Utility Plant in Service 2/			
Electric	$ 232,228,489	$ 219,742,789	$ 210,620,597
Gas	592,177	574,597	558,948
Water	1,135,582,128	1,090,127,058	1,042,386,665
Sewer	191,559,192	183,734,248	163,197,096
Heating	306,940	303,152	91,708
Total	$ 1,560,268,926	$ 1,494,481,844	$ 1,416,855,014
Accumulated Provision for Depreciation 2/			
Electric	$ 106,879,191	$ 100,626,282	$ 93,436,328
Gas	220,269	202,185	184,442
Water	241,687,225	226,955,350	213,400,291
Sewer	26,728,087	23,302,713	20,798,590
Heating	31,569	23,658	57,045
Total	$ 375,546,341	$ 351,110,188	$ 327,876,696
Utility Plant Less Provision for Depreciation 2/			
Electric	$ 125,349,298	$ 119,116,507	$ 117,184,269
Gas	371,908	372,412	374,506
Water	893,894,903	863,171,708	828,986,374
Sewer	164,831,105	160,431,535	142,398,506
Heating	275,371	279,494	34,663
Total	$ 1,184,722,585	$ 1,143,371,656	$ 1,088,978,318

1/ Total plant includes out-of-state properties.
2/ Including apportionment of common property.
3/ Excluding utility plant leased to others.

TABLE 2

COMPARATIVE STATEMENT OF CAPITALIZATION
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1984-1982

	Dec. 31,1984	Dec. 31, 1983	Dec. 31, 1982
All Utilities			
Long-Term Debt Outstanding	$ 2,798,262,363	$ 2,867,333,181	$ 2,903,515,693
Advances from Affiliates or Municipality	87,663,143	92,560,545	90,601,464
Preferred Stock Outstanding	362,666,600	397,288,620	402,987,200
Common Stock Outstanding and Related Accounts	1,872,020,988	1,847,379,635	1,798,292,978
Capital Paid in by Municipality	112,775,624	104,104,789	94,073,579
Surplus	1,709,201,493	1,604,109,281	1,430,068,226
Customers' Advances in Aid of Construction	21,171,216	21,461,581	13,715,838
Contributions in Aid of Construction	687,356,712	650,455,849	600,389,532
Total	$ 7,651,118,139	$ 7,584,693,481	$ 7,333,644,510
Private Utilities			
Long-Term Debt Outstanding	$ 2,476,732,672	$ 2,565,229,734	$ 2,633,756,162
Advances from Affiliates	10,000	36,047	303,452
Preferred Stock Outstanding	362,666,600	397,288,620	402,987,200
Common Stock Outstanding and Related Accounts	1,872,020,988	1,847,379,635	1,798,292,978
Surplus	1,276,004,924	1,210,789,487	1,073,059,117
Customers' Advances in Aid of Construction	18,419,767	15,549,663	11,405,116
Contributions in Aid of Construction	96,245,847	94,998,064	83,256,491
Total	$ 6,102,100,798	$ 6,131,271,250	$ 6,003,060,516
Municipal Utilities			
Long-Term Debt Outstanding	$ 321,529,691	$ 302,103,447	$ 269,759,531
Advances from Municipality	87,653,143	92,524,498	90,298,012
Capital Paid in by Municipality	112,775,624	104,104,789	94,073,579
Surplus	433,196,569	393,319,794	357,009,109
Customers' Advances in Aid of Construction	2,751,449	5,911,918	2,310,722
Contributions in Aid of Construction	591,110,865	555,457,785	517,133,041
Total	$ 1,549,017,341	$ 1,453,422,231	$ 1,330,583,994

1/ These data necessarily represent total company figures. A few companies operate outside of Wisconsin. Electric, gas, water, sewer, heating and telephone utilities are included.

TABLE 3

DISPOSITION OF INCOME
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1984-1982

	1984	1983	1982
All Utilities			
Net Operating Revenues			
Electric	$ 381,537,125	$ 391,016,442	$ 360,720,236
Gas	74,289,453	69,134,785	63,691,068
Telephone	228,953,942	227,320,542	207,383,151
Water	30,628,045	27,770,538	12,708,093
Sewer	1,682,330	1,208,320	485,625
Steam and Hot Water Heating	1,537,986	1,266,772	1,569,684
Total	$ 718,628,881	$ 717,717,399	$ 646,557,857
Income from Plant Leased to Others	$ 105,899	$ 54,930	$ 60,802
Income from Merchandising and Jobbing	352,997	73,233	77,334
Other Income - Net	92,110,532	67,497,939	55,835,451
Gross Income	$ 811,198,309	$ 785,343,501	$ 702,531,444
Interest on Long-Term Debt	$ 219,712,036	$ 225,117,263	$ 225,421,450
Amortization of Debt Discount and Premium	2,758,651	2,357,370	2,226,423
Interest on Debt to Associated Companies or City	7,365,264	6,845,603	12,919,251
Other Deductions	24,340,231	35,938,524	42,009,407
Net Income	$ 557,022,127	$ 515,084,741	$ 419,954,913
Dividend Appropriations on Preferred Stock	$ 29,851,244	$ 32,621,265	$ 33,168,926
Dividend Appropriations on Common Stock 2/	310,256,398	299,404,662	246,598,109
Appropriations to City	899,854	1,563,965	2,049,138
Balance Transferred to Surplus	$ 216,014,631	$ 181,494,849	$ 138,138,740

(Continued)

TABLE 3 (Continued)

DISPOSITION OF INCOME
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1984-1982

	1984	1983	1982
Private Utilities			
Net Operating Revenues			
Electric	$ 371,626,276	$ 380,521,390	$ 356,152,190
Gas	74,269,115	69,103,347	63,630,693
Telephone	228,953,942	227,320,542	207,383,151
Water	1,130,201	1,171,206	905,518
Sewer	0	2,828	134
Steam and Hot Water Heating	1,530,473	1,277,379	1,583,111
Total	$ 677,510,007	$ 679,396,692	$ 629,654,797
Income from Plant Leased to Others	$ 102,599	$ 54,030	$ 59,902
Income from Merchandising and Jobbing	113,307	(73,135)	(44,328)
Other Income - Net	70,632,261	49,834,706	39,465,842
Gross Income	$ 748,358,174	$ 729,212,293	$ 669,136,213
Interest on Long-Term Debt	$ 199,661,383	$ 207,267,243	$ 210,246,256
Amortization of Debt Discount and Premium	2,017,598	1,745,112	1,817,531
Interest on Debt to Associated Companies	2,134,389	1,865,985	8,280,340
Other Deductions	24,023,591	36,076,421	41,942,490
Net Income	$ 520,521,213	$ 482,257,532	$ 406,849,596
Dividend Appropriations on Preferred Stock	$ 29,851,244	$ 32,621,265	$ 33,168,926
Dividend Appropriations on Common Stock 2/	310,256,398	299,404,662	246,598,109
Balance Transferred to Surplus	$ 180,413,571	$ 150,231,605	$ 127,082,561

TABLE 3 (Concluded)

DISPOSITION OF INCOME
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1984-1982

	1984	1983	1982
Municipal Utilities			
Net Operating Revenue			
Electric	$ 9,870,549	$ 10,495,052	$ 4,568,046
Gas	20,338	31,438	60,375
Water	29,497,844	26,599,332	11,802,575
Sewer	1,682,330	1,205,492	485,491
Steam and Hot Water Heating	7,513	(10,607)	(13,427)
Total	$ 41,078,574	$ 38,320,707	$ 16,903,060
Income from Plant Leased to Others	3,300	900	900
Income from Merchandising and Jobbing	239,690	146,368	121,662
Other Income - Net	21,478,271	17,663,233	16,369,609
Gross Income	$ 62,799,835	$ 56,131,208	$ 33,395,231
Interest on Long-Term Debt	20,050,653	17,850,020	15,175,194
Amortization of Debt Discount and Premium	741,053	612,258	408,892
Interest on Debt to City	5,230,875	4,979,618	4,638,911
Other Deductions	316,640	(137,897)	66,917
Net Income	$ 36,460,614	$ 32,827,209	$ 13,105,317
Appropriations to City	899,854	1,563,965	2,049,138
Balance Transferred to Surplus	$ 35,560,760	$ 31,263,244	$ 11,056,179

1/ Includes out-of-state operations of Wisconsin utilities.
2/ Excluding Stock Dividends.

ELECTRIC UTILITY STATISTICS

Comparative statistics of Wisconsin electric utilities for the 3-year period, 1982 to 1984, are summarized in this section. Out-of-state operations are excluded (except in tables 7, 8 and 9 where data on out-of-state sales, purchases and generating plant are presented).

The following tables and charts present the data covering electric utility operations:

Table 4 - Comparative Statement of Revenues and Expenses, 1984-1982
Table 5 - Sales to Ultimate Consumers, 1984-1982
Table 6 - Comparative Statement of Operating Expenses, 1984-1982
Table 7 - Summary of Megawatt Hours Sold and Used, 1984-1982
Table 8 - Megawatt Hours Generated and Purchased, 1984-1982
Table 9 - Generating Plant, Substation and Transmission Line Data, 1984-1982
Table 10 - Condensed Summary of 1984 Operations - Individual Private Electric Utilities
Table 11 - Condensed Summary of 1984 Operations - Individual Municipal Electric Utilities
Chart 10 - Residential Revenue and Consumption Ratios, Wisconsin and United States, 1975-1984
Chart 11 - Comparison of Revenues and Expenses, Wisconsin Electric Utilities, 1975-1984
Chart 12 - Revenues from Sales to Ultimate Consumers by Individual Wisconsin Electric Utilities, Percent of Total, 1984

Electric Consumers

The total number of ultimate (retail) electric consumers increased 1.16% over 1983. Residential customers increased 1.20% and rural customers increased 0.58%. Commercial and industrial customers increased 0.81%.

As has already been pointed out, electric cooperatives are not included in the tables. These organizations served an estimated 159,000 customers during 1983. This was 53% of all rural electric customers served in the state.

Revenue and Consumption Ratios

Kilowatt hours sold to ultimate consumers in Wisconsin rose 3.94% during 1984. Commercial and industrial consumption rose 6.16% during the year as did residential and rural consumption at 0.17% and 1.04% respectively.

State-wide averages by class of service for revenue per megawatt hour are compared below:

	1984	1983	1982
Residential	$67.19	$66.91	$62.88
Commercial and Industrial	52.12	52.84	50.50
Rural	64.48	64.38	61.79
Public St. and Hwy. Lighting	77.31	75.96	70.61
Other Sales to Public Auth.	51.04	50.94	47.46
Interdepartmental Sales	52.33	51.24	47.59
Total Ultimate Consumers	$57.23	$57.79	$54.96

State-wide average ratios of kilowatt hour consumption per customer and revenue per customer are compared below for the three major classes of service:

	1984	1983	1982
Average Annual Use (kWh)			
Residential	7,067	7,140	6,903
Commercial and Industrial	128,827	122,335	116,587
Rural	14,112	14,046	13,850
Average Annual Bill			
Residential	$ 474.80	$ 477.70	$ 434.02
Commercial and Industrial	6,714.72	6,464.05	5,887.52
Rural	909.98	904.29	855.81

Average annual use for residential customers decreased by 1.02%, commercial and industrial increased by 5.31% and rural increased by 0.47%. Average annual bills for residential customers decreased by 0.60% while commercial and industrial and rural bills increased 3.88% and 0.63% respectively.

Residential revenue and consumption ratios of Wisconsin utilities are compared with national averages over a 9-year period in Chart 10. In 1984, the average Wisconsin residential customer consumed 26.9% fewer kilowatt hours and paid an average bill that was 35.1% less than the national average.

Electric Utility Income Account

A summary of the income account of Wisconsin electric utilities for the past three years is presented in Table 4. A 9-year graphic comparison is made in Chart 11.

Operating revenues continue to rise steadily with 1984 revenues up 3.2% over 1983. Total operating expenses increased 8.6% and net operating revenues decreased by 18.6%.

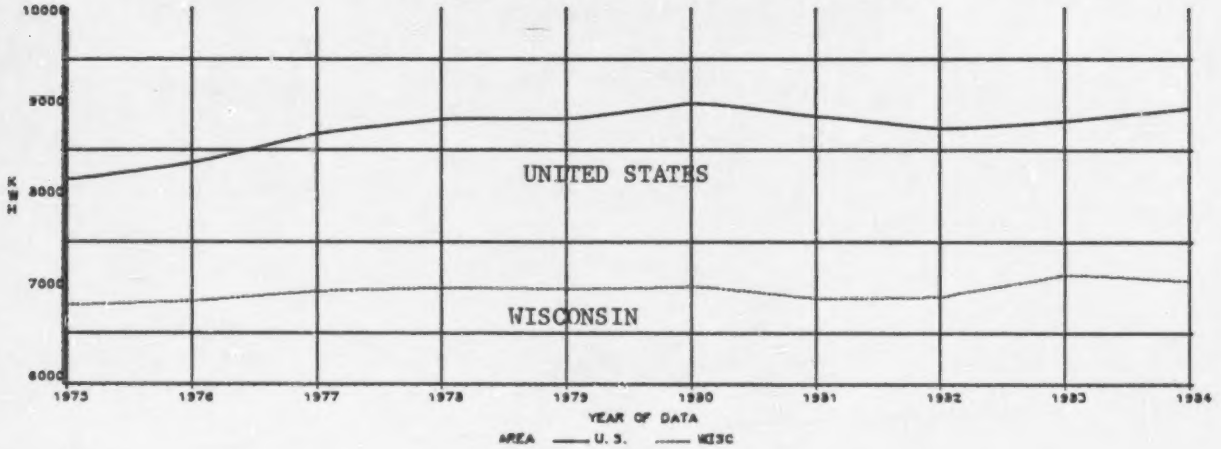
Table 6 presents a detailed analysis of operating expenses, exclusive of depreciation and taxes. Of the classes of expense shown, sales had the greatest increase which was 245.13%. Production was least with 3.1% increase.

A comparison of certain expense ratios of private and municipal utilities in 1984 is presented below:

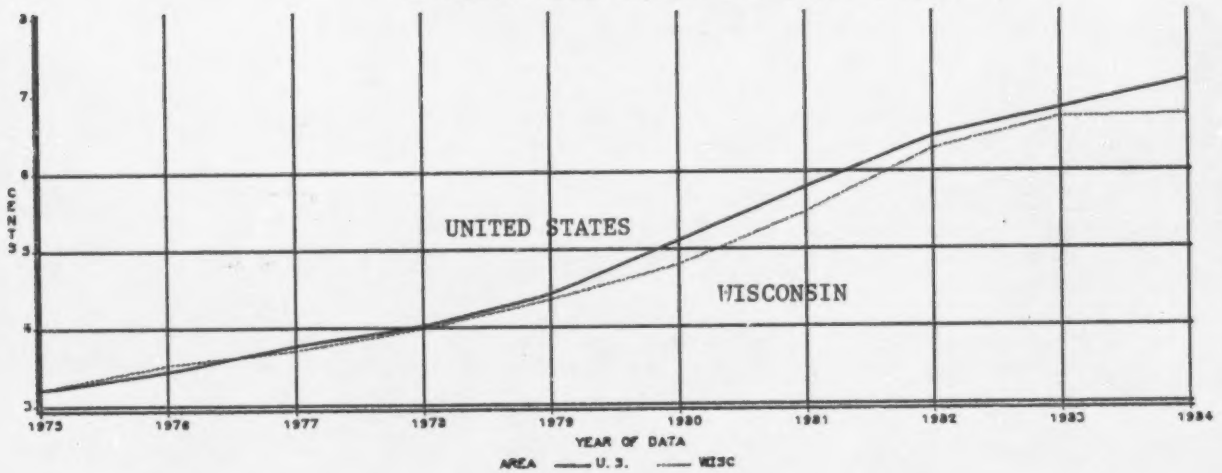
	1984 Expense Ratios					
	Per Dollar of Revenue		Per Average Customer		Per MWh Sold	
	Pvt. (Cents)	Mun. (Cents)	Pvt.	Mun.	Pvt.	Mun.
Production and Trans.	44.22	80.28	$ 581.74	$ 879.17	$ 28.48	$ 41.34
Distribution	3.31	3.28	69.83	35.89	3.42	1.68
Customer Accounts	2.09	1.50	27.62	16.41	1.35	0.77
Customer Services	0.99	0.00	12.99	0.00	0.64	0.00
Sales Promotion 1/	0.07	0.01	0.88	0.09	0.04	0.01
Admin. & General	6.18	3.93	81.27	43.07	3.98	2.03
Total Oper. and Main.	58.86	89.00	774.33	974.63	37.91	45.83
Depreciation	10.57	3.76	139.08	41.13	6.81	1.93
Taxes O/T Inc. Taxes	4.24	2.50	55.73	27.42	2.73	1.29
Income Taxes	9.53	0.00	125.33	0.00	6.14	0.00
Total Operating Exp.	83.20	95.26	$1,094.47	$1,043.18	$ 53.59	$ 49.05

1/ Includes customer service expenses for municipally owned utilities.

CHART 10
ANNUAL KILOWATT HOUR SALES
RESIDENTIAL ELECTRIC CUSTOMERS



REVENUE PER KILOWATT HOUR
RESIDENTIAL ELECTRIC CUSTOMERS



AVERAGE ANNUAL BILL
RESIDENTIAL ELECTRIC CUSTOMERS

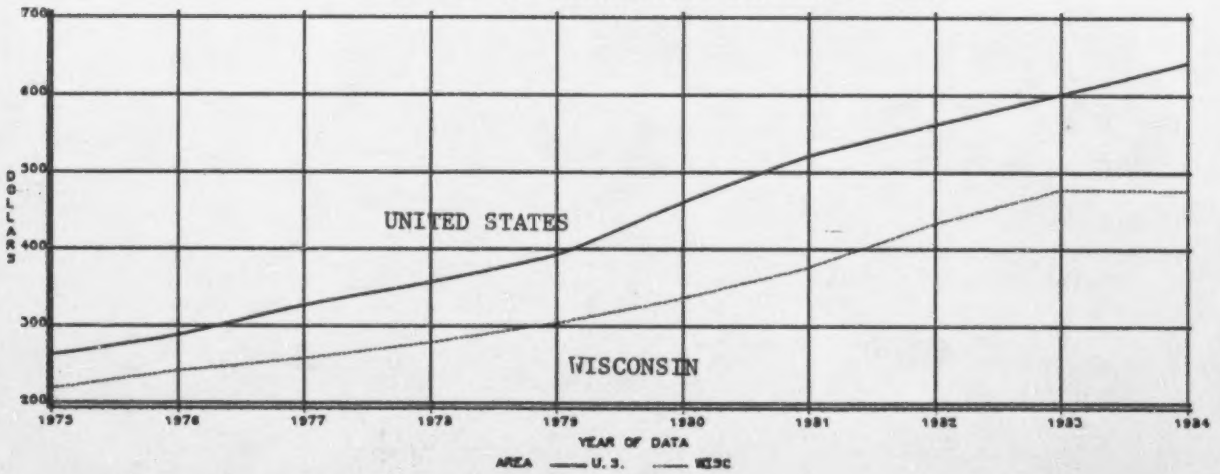
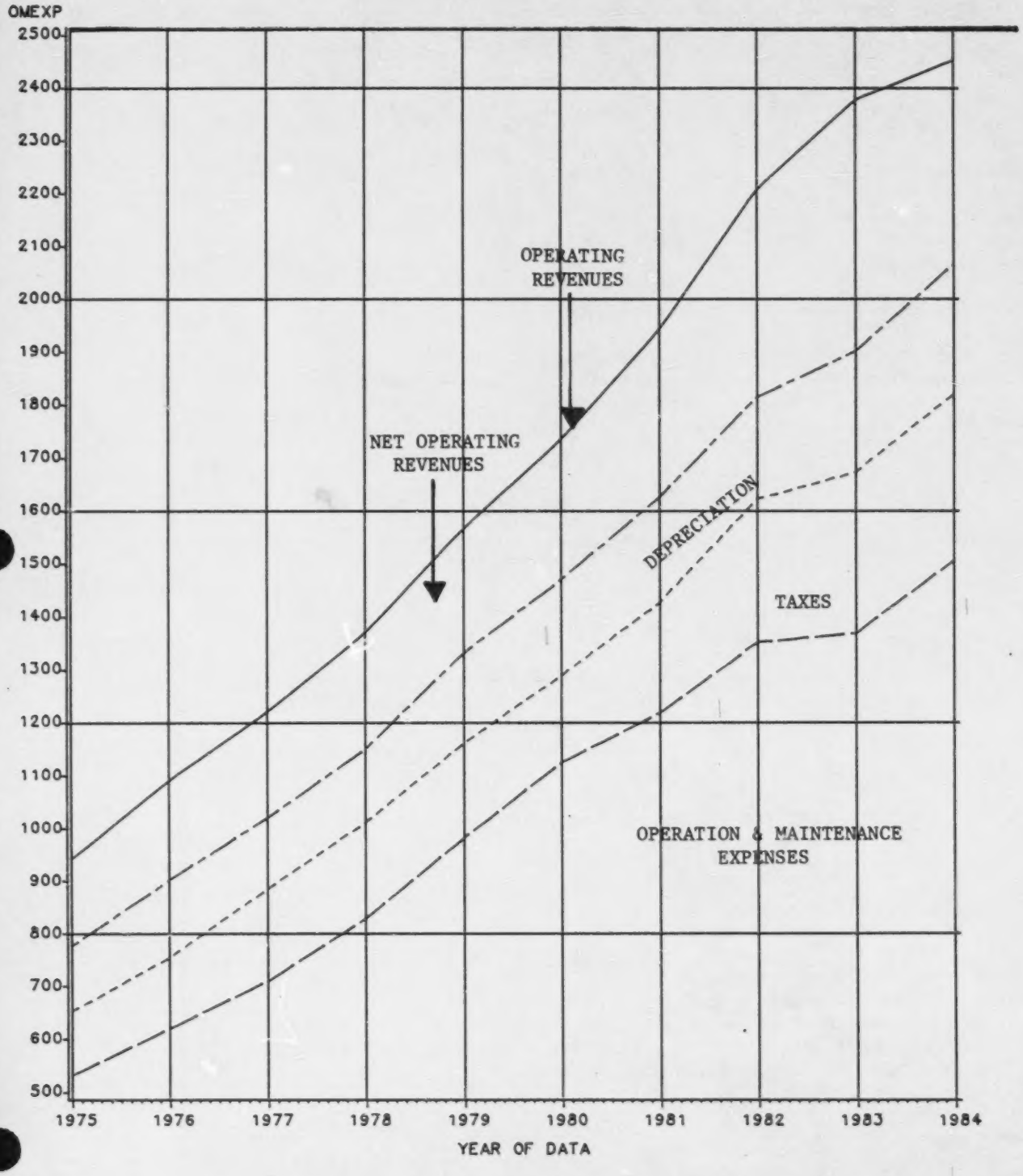


CHART 11

WISCONSIN ELECTRIC UTILITIES REVENUES AND EXPENSES



In addition to the above breakdown of operating expenses, Table 6 presents the detail of production expense on a company-wide basis. If this breakdown is related to corresponding data on generation and purchases, the following comparison of costs per megawatt hour, exclusive of fixed charges, results:

	Production Expense* Per Megawatt Hour Generated or Purchased 1984	
	Private Utilities	Municipal Utilities
Steam Plants-Nuclear Fuel	$ 14.36	$ 0.00
Steam Plants-Fossil Fuel	25.51	52.29
Hydro Electric Plants	7.10	2.90
Internal Combustion (Recip. & Turbine)	205.23	196.29
Purchased Energy	26.53	39.52

*Excludes depreciation, taxes, and return.

Kilowatt Hours Generated and Purchased; Fuel Consumed

The sources of energy of Wisconsin electric utilities are summarized in Table 8. The net generation by plants located in Wisconsin is compared below on a percentage basis over a period of ten years:

	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Steam-Nuclear	28.2%	25.7%	30.3%	30.1%	28.4%	29.7%	34.3%	33.3%	33.0%	33.4%
Steam-Fossil	66.9	67.0	63.9	64.5	65.9	62.9	58.1	60.8	60.9	59.5
Hydro	4.8	7.1	5.6	4.8	4.6	5.0	5.1	4.2	3.6	4.8
Int. Comb.-Recip.	1/	1/	1/	1/	0.1	0.1	0.2	0.1	0.6	0.2
Int. Comb.-Turbine	0.1	0.2	0.2	0.6	1.0	2.3	2.3	1.6	1.9	2.1
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

During the ten years covered, fossil steam generating plants have produced a major portion of the State's electric energy, varying from a high of 67.0% in 1983 to a low of 58.1% in 1978. Privately owned utilities generated 99.0% of total energy produced by utilities in 1984. The most significant change has been the nuclear plants which generated no energy in 1970 but now produce about 30% of the total.

Fuel consumption ratios over the past five years are presented below:

	1984	1983	1982	1981	1980
BTU's of Fuel Used in Nuclear Steam Plants Per kWh Generated (Net)	10,580	10,816	10,830	10,844	10,825
BTU's of Fuel Used in Fossil Steam Plants Per kWh Generated (Net)	10,939	10,920	11,805	11,070	11,133
BTU's of Fuel Used in Turbine Plants Per kWh Generated (Net)	17,954	16,378	15,264	16,313	15,328
BTU's of Fuel Used in Reciprocating Plants Per kWh Generated (Net)	11,268	10,810	10,470	12,151	12,155

1/ Less than 0.05%.

Generating Plant and Transmission Line Data

Data on the capacity of generating plants and miles of transmission pole line are presented in Table 9. The total capacity of all generating plants operated by Wisconsin utilities as of December 1984 was about 10,000 megawatts of which about 100 megawatts were in plants located outside the State. Of the capacity of plants located in Wisconsin, 16.0% is steam-nuclear, 64.8% is steam-fossil, 4.7% is hydro, 1.0% is by reciprocating engines, and 13.4% is turbine.

About 9,244 miles of transmission line were in service at the close of 1984 of which about 4,407 miles carry voltage in excess of 100,000 volts.

Data on Individual Utilities

Table 10 presents selected operating data covering the year 1984 for each Class A, B, and C private electric utility in the State and Table 11 presents similar data on each Class A, B, and C municipal electric utility. Chart 12 shows the percentage distribution by companies of electric operating revenue from sales to ultimate consumers. Four large private utilities account for 83% of the total. Municipal utilities make up 8%.

Table 10 shows that private utilities as a group generated a large part of their energy requirements while Table 11 shows that municipal utilities purchase most of their requirements. Of the 77 individual municipal utilities listed, only 16 generated some electricity.

CHART 12
REVENUES OF WISCONSIN ELECTRIC UTILITIES IN PERCENT OF TOTAL SALES TO ULTIMATE CONSUMERS 1984

SUM OF PERCENT BY UTILITY

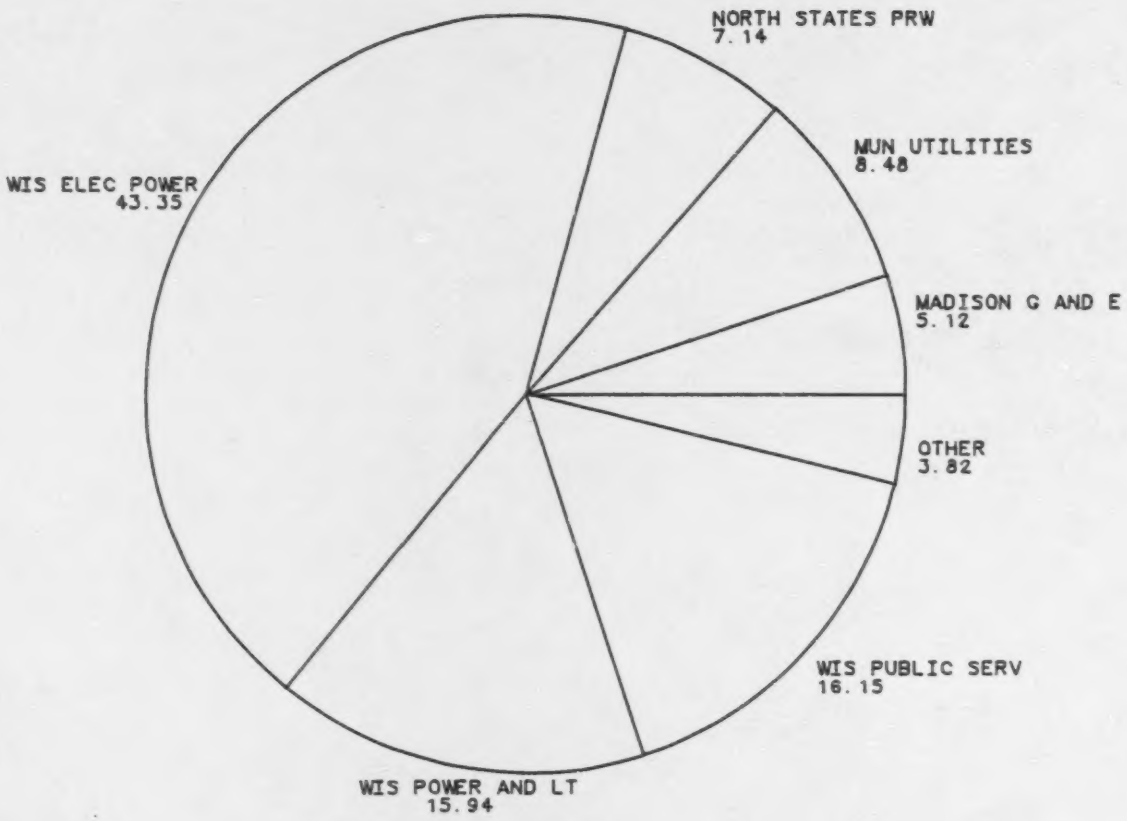


TABLE 4

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN ELECTRIC UTILITIES 1/
1984-1982

	1984	1983	1982
All Electric Utilities			
Operating Revenues			
Sales to Ultimate Consumers	$ 2,226,923,676	$ 2,163,446,079	$ 1,977,775,760
Sales to Other Utilities	195,012,726	182,142,333	166,930,918
Sales to Electric Cooperatives	12,691,716	12,762,458	11,435,933
Miscellaneous Revenues	19,553,192	20,171,531	53,558,297
Total Operating Revenues	$ 2,454,181,310	$ 2,378,522,401	$ 2,209,700,908
Operating Revenue Deductions			
Operation and Maintenance	$ 1,507,357,486	$ 1,369,912,065	$ 1,353,273,514
Depreciation and Amortization	245,296,001	227,754,716	193,028,585
Taxes Other than Income Taxes	100,363,764	90,408,748	84,146,200
Income Taxes	213,984,944	214,582,198	186,618,947
Total Operating Expenses	$ 2,067,002,195	$ 1,902,657,727	$ 1,817,067,246
Net Operating Revenues	$ 387,179,115	$ 475,864,674	$ 392,633,662
Private Electric Utilities			
Operating Revenues			
Sales to Ultimate Consumers	$ 2,022,880,109	$ 1,967,257,496	$ 1,805,272,601
Sales to Other Utilities	194,787,508	181,904,277	166,453,352
Sales to Electric Cooperatives	12,381,337	12,444,706	11,435,933
Miscellaneous Revenues	15,986,884	17,166,101	51,109,955
Total Operating Revenues	$ 2,246,035,838	$ 2,178,772,580	$ 2,034,271,841
Operating Revenue Deductions			
Operation and Maintenance	$ 1,322,111,394	$ 1,192,956,878	$ 1,193,897,609
Depreciation and Amortization	237,478,330	220,230,953	185,935,410
Taxes Other than Income Taxes	95,152,604	85,632,929	79,754,259
Income Taxes	213,984,944	214,582,198	186,618,947
Total Operating Expenses	$ 1,868,727,272	$ 1,713,402,958	$ 1,646,206,225
Net Operating Revenues	$ 377,308,566	$ 465,369,622	$ 388,065,616

(Continued)

TABLE 4 (Concluded)

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN ELECTRIC UTILITIES 1/
1984-1982

	1984	1983	1982
Municipal Electric Utilities			
Operating Revenues			
Sales to Ultimate Consumers	$ 204,043,567	$ 196,188,583	$ 172,503,159
Sales to Other Electric Utilities	225,218	238,056	477,566
Sales to Electric Cooperatives	310,379	317,752	0
Miscellaneous Operating Revenues	3,566,308	3,005,430	2,448,342
Total Operating Revenues	$ 208,145,472	$ 199,749,821	$ 175,429,067
Operating Revenue Deductions			
Operation and Maintenance	$ 185,246,092	$ 176,955,187	$ 159,375,905
Depreciation and Amortization	7,817,671	7,523,763	7,093,175
Taxes Other than Income Taxes	5,211,160	4,775,819	4,391,941
Total Operating Expenses	$ 198,274,923	$ 189,254,769	$ 170,861,021
Net Operating Revenues	$ 9,870,549	$ 10,495,052	$ 4,568,046

1/ Excluding out-of-state operations.

TABLE 5

SALES TO ULTIMATE CONSUMERS BY CLASS
WISCONSIN ELECTRIC UTILITIES 1/
1983-1981

	1984	1983	1982
All Electric Utilities			
Revenues			
Residential	$ 738,629,643	$ 734,328,421	$ 665,972,452
Commercial and Industrial	1,316,905,267	1,257,607,585	1,138,593,197
Rural	127,794,486	126,269,243	120,261,378
Public Street and Highway Lighting	27,012,683	29,078,732	31,307,908
Other Sales to Public Authorities	12,572,302	12,458,762	18,449,745
Interdepartmental Sales	4,009,294	3,703,336	3,191,080
Total Revenue from Ultimate Consumers	$2,226,923,675	$2,163,446,079	$1,977,775,760
Megawatt Hours Sold			
Residential	10,993,340	10,975,229	10,591,614
Commercial and Industrial	25,265,824	23,800,741	22,546,816
Rural	1,981,775	1,961,354	1,946,206
Public Street and Highway Lighting	349,421	382,819	443,373
Other Sales to Public Authorities	246,319	244,574	388,770
Interdepartmental Sales	76,612	72,279	67,054
Total Megawatt Hours Sold to Ultimate Consumers	38,913,291	37,436,996	35,983,833
Average Number of Customers 2/			
Residential	1,555,666	1,537,212	1,532,469
Commercial and Industrial	196,122	194,554	189,962
Rural	140,436	139,633	137,419
Public Street and Highway Lighting	4,177	3,286	3,335
Other Sales to Public Authorities	983	863	1,342
Interdepartmental Sales	109	109	108
Total Ultimate Consumers	1,897,493	1,875,657	1,864,635

(Continued)

TABLE 5 (Continued)

SALES TO ULTIMATE CONSUMERS BY CLASS
WISCONSIN ELECTRIC UTILITIES 1/
1984-1982

	1984	1983	1982
Private Electric Utilities			
Revenues			
Residential	$ 679,751,666	$ 675,997,303	$ 613,865,698
Commercial and Industrial	1,191,398,035	1,138,911,855	1,035,705,039
Rural	115,763,473	114,723,076	109,756,312
Public Street and Highway Lighting	23,355,153	25,408,512	27,792,998
Other Sales to Public Authorities	10,994,775	10,815,155	17,003,561
Interdepartmental Sales	1,617,007	1,401,595	1,148,993
Total Revenue from Ultimate Consumers	$2,022,880,109	$1,967,257,496	$1,805,272,601
Megawatt Hours Sold			
Residential	9,861,746	9,851,980	9,499,476
Commercial and Industrial	22,699,727	21,418,085	20,317,399
Rural	1,767,104	1,750,813	1,739,895
Public Street and Highway Lighting	298,709	330,705	390,839
Other Sales to Public Authorities	215,388	215,168	361,505
Interdepartmental Sales	28,385	26,815	22,591
Total Megawatt Hours Sold to Ultimate Consumer	34,871,059	33,593,566	32,331,705
Average Number of Customers 2/			
Residential	1,408,034	1,391,808	1,386,308
Commercial and Industrial	171,822	170,095	166,393
Rural	123,889	123,039	120,481
Public Street and Highway Lighting	3,060	3,161	3,197
Other Sales to Public Authorities	612	591	1,089
Interdepartmental Sales	8	8	7
Total Ultimate Consume	1,707,425	1,688,702	1,677,475

(Continued)

TABLE 5 (Concluded)

SALES TO ULTIMATE CONSUMERS BY CLASS
WISCONSIN ELECTRIC UTILITIES 1/
1984-1982

	1984	1983	1982
Municipal Electric Utilities			
Revenues			
Residential	$ 58,877,977	$ 58,331,118	$ 52,106,754
Commercial and Industrial	125,507,232	118,695,730	102,888,158
Rural	12,031,013	11,546,167	10,505,066
Public Street and Highway Lighting	3,657,530	3,670,220	3,514,910
Other Sales to Public Authorities	1,577,527	1,643,607	1,446,184
Interdepartmental Sales	2,392,287	2,301,741	2,042,087
Total Revenue from Ultimate Consumers	$ 204,043,566	$ 196,188,583	$ 172,503,159
Megawatt Hours Sold			
Residential	1,131,594	1,123,249	1,092,138
Commercial and Industrial	2,566,097	2,382,656	2,229,417
Rural	214,671	210,541	206,311
Public Street and Highway Lighting	50,712	52,114	52,534
Other Sales to Public Authorities	30,931	29,406	27,265
Interdepartmental Sales	48,227	45,464	44,463
Total Megawatt Hours Sold to Ultimate Consumers	4,042,232	3,843,430	3,652,128
Average Number of Customers 2/			
Residential	147,632	145,404	146,161
Commercial and Industrial	24,300	24,459	23,569
Rural	16,547	16,594	16,938
Public Street and Highway Lighting	1,117	125	138
Other Sales to Public Authorities	371	272	253
Interdepartmental Sales	101	101	101
Total Ultimate Consumers	190,068	186,955	187,160

1/ Excluding out-of-state operations.
2/ Heating, cooking and yard lighting customers on separate rates are not included in customer data, as they would be duplications.

TABLE 6

COMPARATIVE STATEMENT OF OPERATION AND MAINTENANCE EXPENSES
WISCONSIN ELECTRIC UTILITIES 1/
1984-1982

	1984	1983	1982
All Electric Utilities			
Production Expense-Total Company			
Steam-Nuclear Fuel	$ 149,698,097	$ 146,774,407	$ 146,397,937
Steam-Fossil Fuel	635,789,974	618,751,856	561,864,245
Hydraulic	15,442,538	14,262,483	13,593,954
Int. Comb.-Recip. and Turbine	6,056,944	9,006,332	7,392,856
Purchases or Net Interchanges	371,915,736	338,993,718	334,212.365
Other Power Supply	1,969,399	11,000,875	13,997,600
Total Production Expense	$1,180,872,688	$1,138,789,671	$1,077,458,957
Amount Applicable to Out-of-State Sales	43,601,825	107,985,344	39,587,154
Amount Applicable to Wisconsin Sales	$1,137,270,863	$1,030,804,327	$1,037,871,803
Operation and Maintenance - Wisconsin Only			
Production	$1,137,270,863	$1,030,804,327	$1,037,871,803
Transmission 2/	23,108,828	20,215,170	20,267,055
Distribution 2/	126,059,634	113,091,682	102,595,951
Customer Accounts	50,281,915	44,651,604	44,704,199
Sales Promotion 3/	1,517,258	439,622	171,083
Customer Service	22,172,301	18,130,135	13,493,230
Administrative and General	146,946,687	142,579,525	134,170,193
Total	$1,507,357,486	$1,369,912,065	$1,353,273,514
Private Electric Utilities			
Production Expense - Total Company			
Steam-Nuclear Fuel	$ 149,698,097	$ 146,774,407	$ 146,397,937
Steam-Fossil Fuel	623,400,420	606,592,896	549,897,381
Hydraulic	15,069,846	13,943,584	13,123,435
Int. Comb.-Recip. and Turbine	5,339,486	8,409,695	6,739,011
Purchases or Net Interchanges	218,413,080	192,287,825	204,529,313
Other Power Supply	1,969,299	10,883,738	13,995,821
Total Production Expense	$1,013,890,228	$ 978,892,145	$ 934,682,898
Amount Applicable to Out-of-State Sales	43,601,825	107,985,344	39,587,154
Amount Applicable to Wisconsin Sales	$ 970,288,403	$ 870,906,801	$ 895,095,744
Operation and Maintenance - Wisconsin Only			
Production	$ 970,288,403	$ 870,906,801	$ 895,095,744
Transmission 2/	22,989,901	20,134,022	20,204,061
Distribution 2/	119,236,964	106,684,865	96,440,348
Customer Accounts	47,163,563	41,767,325	41,862,870
Sales Promotion	1,503,236	428,995	158,827
Customer Service	22,169,307	18,127,103	13,488,978
Administrative and General	138,760,020	134,907,767	126,646,781
Total	$1,322,111,394	$1,192,956,878	$1,193,897,609

TABLE 6 (Concluded)

COMPARATIVE STATEMENT OF OPERATION AND MAINTENANCE EXPENSE
WISCONSIN ELECTRIC UTILITIES 1/
1984-1982

	1984	1983	1982
Municipal Electric Utilities			
Production Expense			
Steam-Fossil Fuel	$ 12,389,554	$ 12,158,960	$ 11,966,864
Hydraulic	372,692	318,899	470,519
Int. Com.-Recip. and Turbine	717,458	596,637	653,845
Purchases or Net Interchanges	153,502,656	146,705,893	129,683,052
Other Power Supply	100	117,137	1,779
Total Production Expense	$ 166,982,460	$ 159,897,526	$ 142,776,059
Transmission 2/	118,927	81,148	62,994
Distribution 2/	6,822,670	6,406,817	6,155,603
Customer Accounts	3,118,352	2,884,279	2,841,329
Sales 3/	17,016	13,659	16,508
Administrative and General	8,186,667	7,671,758	7,523,412
Total	$ 185,246,092	$ 176,955,187	$ 159,375,905

1/ Out-of-state operations of Wisconsin Utilities are not included except in detail of production expenses, as indicated.
2/ Transmission and distribution expenses are combined in the Class D report forms. These utilities are assumed to have no transmission expense.
3/ Includes customer service expense for municipal utilities.

TABLE 7

SUMMARY OF MEGAWATT HOURS SOLD AND USED
WISCONSIN ELECTRIC UTILITIES
1984-1982

All Electric Utilities	1984	1983	1982
MWh Sold to Ultimate Customers (Wisconsin Only)	38,913,291	37,436,996	35,983,833
MWh Sold to Other Electric Utilities	4,914,830	4,693,755	4,229,791
MWh sold at State Line	254,224 1/	49,937 1/	452,944 1/
MWh sold to Electric Coops.	345,673	343,075	330,309
Total MWh Sold in Wisconsin 2/	44,428,018	42,523,763	40,997,077
MWh Used by Utilities	126,769	115,073	102,559
Total MWh Sold & Used in Wisconsin 2/	44,554,787	42,638,836	41,099,636
MWh Sold Out of State			
Sales to Ultimate Consumers	561,018	519,817	520,405
Sales to Electric Utilities and Cooperatives	1,385,229	796,233 1/	204,918 1/
Total MWh Sold Out of State	1,946,247	1,316,050	725,323
MWh Used by Utilities Out of State	3,735	2,188	2,356
Total MWh Sold & Used Out of State	1,949,982	1,318,238	727,679
Total MWh Sold & Used 1/	46,504,769	43,957,074	41,827,315
MWh Unaccounted for	2,993,866	3,134,758	2,952,198
Total MWh Generated and Purchased Purchased 2/	49,498,635	47,091,832	44,779,513

(Continued)

TABLE 7 (Continued)

SUMMARY OF MEGAWATT HOURS SOLD AND USED
WISCONSIN ELECTRIC UTILITIES
1984-1982

	1984	1983	1982
Private Electric Utilities			
MWh Sold to Ultimate Customers (Wisconsin Only)	34,871,059	33,593,566	32,331,705
MWh Sold to Other Electric Utilities	4,908,989	4,689,366	4,227,038
MWh Sold at State Line	254,224 1/	49,937 1/	452,944 1/
MWh Sold to Electric Cooperatives	345,673	343,075	330,509
Total MWh Sold in Wisconsin 2/	40,379,945	38,675,944	37,342,196
MWh Used by Utilities	124,391	110,496	98,689
Total MWh Sold & Used in Wisconsin 2/	40,504,336	38,786,440	37,440,885
MWh Sold Out of State			
Sales to Ultimate Consumers	561,018	519,817	520,405
Sales to Electric Utilities & Cooperatives	1,385,229 1/	796,233 1/	204,918 1/
Total MWh Sold Out of State	1,946,247	1,316,050	725,323
MWh Used by Utilities Out of State	3,735	2,188	2,356
Total MWh Sold & Used Out of State	1,949,982	1,318,238	727,679
Total MWh Sold and Used 1/	42,454,318	40,104,678	38,160,016
MWh Unaccounted for	2,791,316	2,913,805	2,768,666
Total MWh Generated and Purchased 2/	45,245,634	43,018,483	40,928,682

(Continued)

TABLE 7 (Concluded)

SUMMARY OF MEGAWATT HOURS SOLD AND USED
WISCONSIN ELECTRIC UTILITIES
1984-1982

	1984	1983	1982
Municipal Electric Utilities			
MWh Sold to Ultimate Customers (Wisconsin Only)	4,042,232	3,843,430	3,652,128
MWh Sold to Other Electric Utilities	5,841	4,389	2,753
MWh Sold to Electric Coops.	0	0	0
Total MWh Sold in Wisconsin 2/	4,048,073	3,847,819	3,654,881
MWh Used by Utilities	2,378	4,577	3,870
Total MWh Sold or Used in Wisconsin 2/	4,050,451	3,852,396	3,658,751
MWh Sold Out of State			
Sales to Ultimate Consumers	0	0	0
Sales to Electric Utilities & Cooperatives	0	0	0
Total MWh Sold Out of State	0	0	0
MWh Used by Utilities Out of State	0	0	0
Total MWh Sold and Used Out of State	0	0	0
Total MWh Sold and Used	4,050,451	3,852,396	3,658,751
MWh Unaccounted for	202,550	220,953	192,080
Total MWh Generated and Purchased 2/	4,253,001	4,073,349	3,850,831

1/ Wisconsin Power and Light Co. reclassified state line sales as sales out of state in 1983.

2/ To avoid double counting subtract "MWh Sold to Other Utilities".

TABLE 8

MEGAWATT HOURS GENERATED AND PURCHASED
WISCONSIN ELECTRIC UTILITIES
1984-1982

All Electric Utilities	1984	1983	1982
Net Generation in Wisconsin			
Steam - Nuclear Fuel	10,424,529	9,099,277	10,132,203
Steam - Fossil Fuel	24,676,118	23,808,376	21,365,041
Hydraulic	1,785,813	1,949,516	1,865,149
Internal Comoustion - Recip.	3,325	2,569	3,379
Internal Combustion - Turbine	26,347	69,690	43,344
Total	36,916,132	34,929,428	33,409,116
Net Generation Outside Wisconsin by Wisconsin Companies			
Hydraulic	466,772	561,189	502,859
Internal Combustion - Recip.	0	(2)	(23)
Total	466,772	561,187	502,836
Total Megawatt Hours Generated			
Steam - Nuclear Fuel	10,424,529	9,099,277	10,132,203
Steam - Fossil Fuel	24,676,118	23,808,376	21,365,041
Hydraulic	2,252,585	2,510,705	2,368,008
Internal Combustion - Recip.	3,325	2,567	3,356
Internal Combustion - Turbine	26,347	69,690	43,344
Total	37,382,904	35,490,615	33,911,952
Megawatt Hours Purchased Plus Net Interchanges			
From Wisconsin Electric Utilities 2/	9,234,694	4,512,245	4,142,266
From Out-of-State Elec. Utils. 3/	1,011,328	5,293,234	4,955,718
From Electric Cooperatives	1,611,536	1,508,961	1,503,190
From Other Non-Utility Companies	258,173	286,777	266,387
Total	12,115,731	11,601,217	10,867,561
Total Megawatt Hours Generated and Purchased 2/	49,498,635	47,091,832	44,779,513
Tons of Coal Used in Steam Plants	13,333,981	12,881,312	11,482,067
Gallons of Fuel Oil Used in Steam Plants	6,007,386	6,864,102	9,835,476
Therms of Natural Gas Used in Steam Plants	14,244,740	26,949,298	38,211,847
Tons of Wood in Steam Plants	130,617	98,206	46,036
Gallons of Fuel Oil Used in Internal Combustion-Recip. Plants	54,890	151,398	96,620
Therms of Natural Gas Used in Internal Combustion-Recip. Plants	23,600	0	28,100
Gallons of Fuel Oil Used in Internal Combustion-Turbine Plts.	819,294	2,842,686	1,658,832
Therms of Natural Gas Used in Internal Combustion-Turbine Plts.	4,457,177	7,427,375	4,377,768

TABLE 8 (Continued)

MEGAWATT HOURS GENERATED AND PURCHASED
WISCONSIN ELECTRIC UTILITIES
1984-1982

	1984	1983	1982
Private Electric Utilities 1/			
Net Generation in Wisconsin			
Steam - Nuclear Fuel	10,424,529	9,099,277	10,132,203
Steam - Fossil Fuel	24,439,199	23,589,161	21,171,605
Hydraulic	1,657,149	1,820,468	1,721,865
Internal Combustion - Recip.	181	690	525
Internal Combustion - Turbine	25,836	69,249	42,517
Total	36,546,894	34,578,845	33,068,715
Net Generation Outside Wisconsin by Wisconsin Companies			
Hydraulic	466,772	561,189	530,849
Internal Combustion - Recip.	0	(2)	(23)
Total	466,772	561,187	530,826
Total Megawatt Hours Generated			
Steam - Nuclear Fuel	10,424,529	9,099,277	10,132,203
Steam - Fossil Fuel	24,439,199	23,589,161	21,171,605
Hydraulic	2,123,921	2,381,657	2,252,714
Internal Combustion - Recip.	181	688	502
Internal Combustion - Turbine	25,836	69,249	42,517
Total	37,013,666	35,140,032	33,599,541
Megawatt Hours Purchased Plus Net Interchanges			
From Wisconsin Electric Utilities 2/	5,473,259	947,745	783,771
From Out-of-State Elec. Utils. 3/	1,011,328	5,293,234	4,955,718
From Electric Cooperatives	1,492,149	1,354,290	1,325,842
From Other Non-Utility Companies	255,232	283,182	263,810
Total	8,231,968	7,878,451	7,329,141
Total Megawatt Hours Generated and Purchased 2/	45,245,634	43,018,483	40,928,682
Tons of Coal Used in Steam Plants	13,158,458	12,725,472	11,324,957
Gallons of Fuel Oil Used in Steam Plants	6,007,386	6,864,102	9,835,476
Therms of Natural Gas Used in Steam Plants	14,244,740	26,949,298	38,211,847
Tons of Wood in Steam Plants	130,617	98,206	46,036
Gallons of Fuel Oil Used in Internal Combustion-Recip. Plants	20,596	21,285	51,647
Therms of Natural Gas Used in Internal Combustion-Recip. Plants	0	0	0
Gallons of Fuel Oil Used in Internal Combustion-Turbine Plts.	819,294	2,842,686	1,658,832
Therms of Natural Gas Used in Internal Combustion-Turbine Plts.	4,457,177	7,340,075	4,377,768

TABLE 8 (Concluded)

MEGAWATT HOURS GENERATED AND PURCHASED
WISCONSIN ELECTRIC UTILITIES
1984-1982

	1984	1983	1982
Municipal Electric Utilities			
Net Generation in Wisconsin			
Steam - Fossil Fuel	236,919	219,215	193,436
Hydraulic	128,664	129,048	115,294
Internal Combustion - Recip.	3,144	1,879	2,854
Internal Combustion - Turbine	511	441	827
Total	369,238	350,583	312,411
Megawatt Hours Purchased plus Net Interchanges			
From Wisconsin Electric Utilities 2/	3,761,435	3,564,500	3,358,495
From Electric Cooperatives	119,387	154,671	177,348
From Other Non-Utility Companies	2,941	3,595	2,577
Total	3,883,763	3,722,766	3,538,420
Total Megawatt Hours Generated and Purchased 2/	4,253,001	4,073,349	3,850,831
Tons of Coal Used in Steam Plants	175,523	155,840	157,110
Gallons of Fuel Oil Used in Steam Plants	0	0	0
Therms of Natural Gas Used in Steam Plants	0	0	0
Gallons of Fuel Oil Used in Internal Combustion-Recip. Plants	34,294	130,113	134,569
Therms of Natural Gas Used in Internal Combustion-Recip. Plants	23,600	0	28,100
Gallons of Fuel Oil Used in Internal Combustion-Turbine Plants	0	0	0
Therms of Natural Gas Used in Internal Combustion-Turbine Plants	0	87,300	0

1/ Experimental generation using windmills and photo voltaics is being done by some utilities. These plants will be included in the Bulletin if and when they produce a significant amount of commercial power.

2/ Energy included in "Purchased from Wisconsin Electric Utilities" is also included in the generation figures. Therefore, to avoid double counting, you should subtract "Purchased from Wisconsin Electric Utilities" from the "Total Megawatt Hours Generated and Purchased" figure.

3/ Includes purchases delivered in Wisconsin or at state line.

TABLE 9

GENERATING PLANT AND TRANSMISSION LINE DATA
WISCONSIN ELECTRIC UTILITIES
1984-1982

	1984	1983	1982
Capacity of Generators in Kilowatts			
All Plants in Wisconsin			
Steam - Nuclear Fuel	1,540,682	1,540,682	1,540,682
Steam - Fossil Fuel	6,235,268	6,235,266	6,559,766
Hydraulic	355,020	352,940	351,320
Internal Combustion - Recip.	103,050	100,456	101,983
Internal Combustion - Turbine	1,285,950	1,285,950	1,285,950
Total	9,520,345	9,515,294	9,839,701
Private Utility Plants in Wisconsin			
Steam - Nuclear Fuel	1,540,682	1,540,682	1,540,682
Steam - Fossil Fuel	6,083,838	6,083,836	6,408,336
Hydraulic	336,145	334,065	332,445
Internal Combustion-Recip.	27,231	27,356	27,356
Internal Combustion-Turbine	1,265,950	1,265,950	1,265,950
Total	9,253,846	9,251,889	9,574,769
Municipal Utility Plants in Wisconsin			
Steam - Fossil Fuel	151,430	151,430	151,430
Hydraulic	18,875	18,875	18,875
Internal Combustion-Recip.	73,169	73,100	74,627
Internal Combustion-Turbine	20,000	20,000	20,000
Total	263,474	263,405	264,932
Plants Located Outside Wisconsin Operated by Wisconsin Utils. 1/			
Hydraulic	99,990	99,990	99,990
Internal Combustion-Recip.	0	5,042	5,042
Total	99,990	105,032	105,032
Total Plants Operated by Wisconsin Utilities			
Steam - Nuclear Fuel	1,540,682	1,540,682	1,540,682
Steam - Fossil Fuel	6,235,268	6,235,266	6,559,766
Hydraulic	455,010	452,930	451,310
Internal Combustion-Recip.	100,400	105,498	107,025
Internal Combustion-Turbine	1,285,950	1,285,950	1,285,950
Total	9,617,310	9,620,326	9,944,733
Miles of Transmission Pole or Tower (Including Out-of-State)			
Over 100,000 Volts	4,399	4,407	4,408
Less than 100,000 Volts	4,820	4,837	4,938

1/ Out-of-State plants are all owned by private electric utilities.

TABLE 10

CONDENSED SUMMARY OF 1984 OPERATIONS
INDIVIDUAL PRIVATE ELECTRIC UTILITIES 1/

Utilities	Operating Revenues 2/	Operation and Maintenance	Depreciation and Amortization	Taxes Other Than Income Taxes	Income Taxes	Net Operating Revenue	Total MWh Sold 2/	Average Number of Consumers 3/	MWh Generated 4/	MWh Purchased 4/
Class A, B, and C										
Consolidated Water Power Co.	$ 19,144,942	$ 19,030,013	$ 474,039	$ 168,465	$ (313,626)	$ (213,949)	617,131	982	146,991	482,575
Dahlberg Light & Power Co.	4,303,904	3,181,364	319,944	148,090	205,679	448,827	53,427	5,686	3,582	58,329
Lake Superior District Power Co.	35,811,255	24,290,894	2,765,079	1,165,179	3,242,027	4,348,076	654,272	31,700	170,542	690,330
Madison Gas and Electric Co.	125,702,247	69,702,920	14,815,124	5,046,367	13,470,403	22,667,433	2,052,259	100,915	2,090,039	89,453
North Central Power Co.	1,225,286	815,415	94,684	62,518	53,912	198,757	19,216	3,012	12,993	8,820
Northern States Power Co.	175,236,819	115,599,971	15,451,845	5,267,766	17,657,527	21,259,710	3,500,714	143,626	878,729	3,006,227
Northwestern Wisconsin Electric Co.	6,008,446	4,213,292	567,902	214,448	208,187	804,617	97,345	8,978	14,479	93,530
Pioneer Power & Light Co.	989,314	789,512	44,791	21,918	51,477	81,616	15,601	1,334	0	16,657
Superior Water, Light & Power Co.	25,623,454	22,907,553	736,355	427,732	420,260	1,131,554	519,173	12,358	0	528,650
Wisconsin Electric Power Co.	1,064,006,930	613,131,521	111,275,992	48,345,182	111,854,145	179,400,090	17,890,690	803,709	18,461,315	1,384,397
Westfield Milling & Electric Light Co.	500,942	449,074	21,907	6,411	2,095	21,455	7,595	552	0	7,946
Wisconsin Power and Light Co.	391,081,489	255,275,798	48,473,396	18,870,242	31,739,557	36,722,496	7,402,844	307,446	7,907,427	1,222,069
Wisconsin Public Service Corp.	396,400,810	192,724,067	42,437,272	15,408,286	35,393,301	110,437,884	7,295,454	287,216	7,327,569	642,985
Grand Total	$2,246,035,838	$1,322,111,394	$237,478,330	$95,152,604	$213,984,944	$377,308,566	40,125,721	1,707,514	37,013,666	8,231,968

1/ Data included in this table includes Wisconsin operations only, except where noted.
2/ Includes Interdepartmental Sales and Sales for Resale.
3/ Excluding Off-Peak Water Heating and Area Lighting Customers.
4/ Total company operations are represented in data on generation and purchases. Companies operating outside Wisconsin are: Lake Superior District Power Co., Northwestern Wisconsin Electric Co., Wisconsin Electric Power Co., and Wisconsin Public Service Corp. Where power is interchanged, the net figure is added to purchase.

TABLE 11

CONDENSED SUMMARY OF 1984 OPERATIONS
INDIVIDUAL MUNICIPAL ELECTRIC UTILITIES 1/

Utilities	Operating Revenues	Operation and Maintenance	Depreciation and Amortization	Taxes Other Than Income Taxes	Net Operating Revenue	Total MWh Sold 2/	Average Number of Customers 3/	MWh Generated 4/	MWh Purchased 4/
Class A, B, and C									
Algoma	$ 1,726,232	$ 1,635,368	$ 33,946	$ 32,037	$ 24,881	30,170	1,796	0	30,608
Arcadia	1,351,320	1,193,060	89,073	53,433	15,754	28,760	1,127	227	29,344
Bangor	1,365,640	1,207,739	56,346	36,334	65,221	26,642	1,225	0	29,861
Barron	1,302,879	1,108,859	94,343	49,934	49,743	26,846	1,478	316	28,210
Black Earth	634,299	471,980	23,953	19,186	119,180	9,983	849	0	10,616
Black River Falls	1,708,419	1,491,114	72,723	62,961	81,621	37,323	2,308	5,716	33,096
Bloomer	1,540,271	1,437,310	34,750	23,965	44,246	33,568	1,461	0	35,798
Boscobel	1,290,603	1,078,010	48,410	30,043	134,140	23,790	1,580	0	24,535
Brodhead	1,155,656	1,012,180	34,907	28,706	79,863	22,717	1,551	0	23,617
Cadott	446,591	416,819	19,596	9,514	662	8,984	593	0	9,354
Cashton	266,987	226,853	20,264	11,819	8,051	5,172	439	1,911	5,477
Cedarburg	4,945,009	4,291,939	164,820	118,645	369,605	85,313	4,408	0	88,769
Clintonville	2,429,013	2,282,160	63,364	47,364	36,125	41,469	2,418	0	44,052
Columbus	1,847,776	1,647,091	69,177	46,118	85,390	35,984	2,063	0	38,006
Cornell	571,488	510,494	23,796	18,233	18,965	11,075	763	0	12,038
Cuba City	648,228	566,524	34,680	14,550	32,474	12,232	998	0	13,125
Cumberland	1,556,422	1,073,773	173,084	93,871	215,694	22,340	1,119	117	23,730
Deerfield	648,651	549,065	25,288	20,512	53,786	10,325	619	0	10,533
Eagle River	1,193,349	1,103,746	33,584	22,734	33,285	20,415	1,042	0	20,954
Elkhorn	3,194,900	2,741,578	131,603	72,174	249,545	52,398	2,447	0	55,123
Elroy	680,564	573,192	46,653	20,504	40,215	14,860	775	(195)	16,473
Evansville	1,920,924	1,835,297	59,757	36,890	(11,020)	38,716	2,233	0	41,194
Fennimore	984,324	875,957	49,929	27,005	31,433	19,293	1,176	164	20,234
Florence	435,004	380,038	25,529	12,402	17,035	7,301	797	0	7,981
Gresham	487,530	342,577	43,302	26,487	75,164	9,053	848	4,591	5,071
Hartford	3,376,516	3,048,249	72,848	63,626	191,793	57,530	3,034	0	61,131
Hazel Green	333,045	315,527	13,764	6,981	(3,227)	5,744	527	0	6,330
Hustisford	761,808	628,363	48,249	25,615	59,581	12,917	1,050	0	13,784
Jefferson	4,606,102	4,402,360	71,144	63,392	69,206	91,275	2,837	0	98,837
Juneau	1,194,044	1,032,884	49,361	32,068	79,731	23,105	808	0	23,697

TABLE 11 (Continued)

CONDENSED SUMMARY OF 1984 OPERATIONS
INDIVIDUAL MUNICIPAL ELECTRIC UTILITIES 1/

Utilities	Operating Revenues	Operation and Maintenance	Depreciation and Amortization	Taxes Other Than Income Taxes	Net Operating Revenue	Total MWh Sold 2/	Average Number of Customers 3/	MWh Generated 4/	MWh Purchased 4/
Kaukauna	$ 17,753,046	$ 16,076,359	$ 637,087	$ 441,612	$ 597,988	492,846	8,520	116,700	384,400
Kiel	1,971,846	1,734,798	60,446	36,957	139,645	33,446	1,545	0	36,922
LaFarge	285,805	266,959	14,181	8,216	(3,551)	4,380	475	0	4,937
Lake Mills	2,358,583	2,103,275	58,944	39,848	156,516	42,737	2,635	0	45,401
Lodi	679,187	625,370	26,976	15,754	11,087	12,794	982	0	13,645
Manitowoc	18,587,921	16,772,133	625,561	485,187	705,040	337,057	14,532	118,815	235,219
Marshfield	12,593,354	10,688,407	488,014	305,192	1,111,741	227,250	9,768	55,770	179,567
Mazomanie	424,771	371,468	19,561	11,824	21,918	7,424	647	0	7,654
Medford	2,971,407	2,708,739	88,617	57,411	116,640	63,259	2,457	0	66,278
Menasha	7,226,027	5,910,997	437,570	317,634	559,826	114,117	6,582	41,940	84,802
Mount Horeb	1,630,624	1,366,554	92,177	42,188	129,705	31,453	1,782	0	33,095
Muscoda	760,078	681,760	38,005	26,750	13,563	12,798	876	0	14,714
New Glarus	671,801	623,711	16,412	10,564	21,114	13,641	885	0	14,340
New Holstein	2,797,087	2,655,802	81,953	46,703	12,629	47,068	1,967	0	48,816
New Lisbon	647,007	489,501	70,552	37,589	49,365	11,667	710	87	12,036
New London	5,968,526	5,464,861	108,396	90,245	305,024	120,380	2,987	0	122,128
New Richmond	1,880,284	1,718,740	59,004	38,669	63,871	40,217	2,152	0	42,806
Oconomowoc	5,791,744	5,184,408	193,968	164,053	249,315	111,043	5,441	0	114,487
Oconto Falls	981,263	895,099	31,590	19,345	35,229	17,115	1,197	0	17,679
Pardeeville	622,295	580,088	20,400	11,100	10,707	12,333	879	123	13,173
Plymouth	5,558,886	4,924,501	230,297	144,071	260,017	109,480	5,210	0	117,504
Prairie Du Sac	788,633	684,040	34,011	19,541	51,041	13,646	1,026	0	14,542
Princeton	529,736	481,608	23,004	15,052	10,072	9,592	813	0	10,657
Reedsburg	3,824,526	3,623,264	65,936	50,601	84,725	85,654	2,680	0	89,618
Rice Lake	4,356,800	3,773,011	177,457	116,545	289,787	92,373	4,087	0	96,983
Richland Center	3,730,539	3,330,284	179,847	128,532	91,876	63,384	2,765	20,394	45,190
River Falls	3,282,577	2,658,048	217,286	127,316	279,927	64,806	3,922	2,350	63,328
Sauk City	1,216,462	1,106,063	38,802	23,648	47,949	21,523	1,316	0	24,674
Shawano	6,730,282	6,112,812	159,137	104,349	353,984	137,358	4,251	0	140,844
Sheboygan Falls	4,559,501	4,206,974	133,356	68,717	150,454	104,048	2,685	0	108,554

TABLE 11 (Concluded)

CONDENSED SUMMARY OF 1984 OPERATIONS
INDIVIDUAL MUNICIPAL ELECTRIC UTILITIES 1/

Utilities	Operating Revenues	Operation and Maintenance	Depreciation and Amortization	Taxes Other Than Income Taxes	Net Operating Revenue	Total MWh Sold 2/	Average Number of Customers 3/	MWh Generated 4/	MWh Purchased 4/
Shullsburg	$ 466,819	$ 404,672	$ 24,517	$ 11,781	$ 25,849	8,186	704	0	8,735
Slinger	681,702	622,009	23,363	10,691	25,639	11,730	768	0	12,615
Spooner	941,386	870,035	24,407	18,280	28,664	18,856	1,405	0	20,323
Stoughton	3,890,975	3,502,849	144,864	103,807	139,455	74,207	5,276	0	80,356
Stratford	483,547	449,685	14,588	5,462	13,812	7,711	657	0	8,254
Sturgeon Bay	6,679,015	5,702,102	375,872	183,141	417,900	107,785	6,279	0	112,992
Sun Prairie	4,323,733	3,874,243	168,061	110,365	171,064	85,095	5,221	0	91,422
Trempealeau	364,355	319,308	12,815	7,792	24,440	7,199	723	0	7,955
Two Rivers	3,914,965	3,591,831	124,839	89,594	108,701	67,397	5,655	0	70,972
Waterloo	1,893,254	1,800,041	28,227	24,539	40,447	36,920	1,280	0	38,520
Waunakee	1,660,671	1,441,749	68,225	34,235	116,462	30,641	1,788	0	32,830
Waupun	2,701,992	2,452,212	98,015	47,849	103,916	55,434	3,285	0	58,299
Westby	718,272	634,002	28,199	16,042	40,029	14,446	882	0	15,349
Whitehall	831,948	753,726	38,422	23,976	15,824	16,638	840	0	18,227
Wisconsin Dells	1,581,278	1,517,776	69,932	40,608	(47,038)	29,741	1,603	0	32,790
Wisconsin Rapids	9,420,320	8,385,443	329,651	308,814	396,412	162,087	10,412	0	172,070
Wonewoc	246,189	246,365	8,641	2,870	(11,687)	4,554	448	0	5,493
Subtotal	$ 206,584,613	$ 183,867,788	$ 7,739,428	$ 5,172,162	$ 9,805,235	4,018,816	187,369	369,026	3,852,773
Class D									
7 Utilities	1,560,859	1,378,304	78,253	38,988	65,314	29,257	2,708	212	30,990
Grand Total	$ 208,145,472	$ 185,246,092	$ 7,817,681	$ 5,211,150	$ 9,870,549	4,048,073	190,077	369,238	3,883,763

1/ Data included in this table includes Wisconsin operations only, except where noted.
2/ Includes Interdepartmental Sales and Sales for Resale.
3/ Excluding Off-Peak Water Heating and Area Lighting Customers.
4/ Total company operations are represented in data on generation and purchases. Companies operating outside Wisconsin are: Lake Superior District Power Co., Northwestern Wisconsin Electric Co., Wisconsin Electric Power Co., and Wisconsin Public Service Corporation. Where power is interchanged, the net figure is added to MWh purchased.

GAS UTILITY SUMMARY

Comparative statistics of the gas utility industry in Wisconsin for the three year period 1984-1982 are presented in this section. The following tables and charts deal with gas utility operations:

Table 12 - Comparative Statement of Revenues and Expenses, 1984 -1982
Table 13 - Sales to Ultimate Consumers by Classes, 1984 -1982.
Table 14 - Operating and Plant Statistics, 1984 -1982.
Table 15 - Condensed Summary of 1984 Operations - Individual Utilities

Chart 13 - Comparison of Revenues and Expenses, Wisconsin Gas Utilities, 1975 -1984.
Chart 14 - Residential Revenue and Consumption Ratios, Wisconsin Gas Utilities, 1975 -1984.
Chart 15 - Revenue of Individual Gas Utilities, Percent of Total Sales to Ultimate Consumers, 1984.

Gas Utility Revenues and Expenses

Table 12 and Chart 13 show that gas utility revenues in 1984 were down about 0.1% from the previous year. Expenses were down 0.6% during the same period. Therms sold to ultimate consumers increased 1.8% and also the number of ultimate (retail) consumers increased 1.3%.

Sales to Ultimate Consumers

Table 13 summarizes sales to ultimate consumers. Percentage changes in 1984 by principle classes of service are given below:

	% Change From 1983 to 1984		
	Revenues	Therms Sold	Number of Customers
Residential - General	(4.70)%	(6.20)%	(4.00)%
Residential - Space Heating	0.94	0.81	1.85
Commercial and Industrial - Firm	(7.10)	(4.03)	(1.41)
Commercial and Industrial - Interr.	3.27	6.04	1.32
Commercial and Industrial - Sp. Htg.	(0.78)	2.74	2.31
Total Sales to Ultimate Consumers	(0.10)%	1.83 %	1.34 %

The number of residential space heating customers rose 1.85% during 1984. Since many of these customers formerly took service as residential general customers, a decline occurred in the number served in that classification. Commercial and industrial firm customers declined. Overall the number of commercial and industrial customers increased by 2.11%.

CHART 13
WISCONSIN GAS UTILITIES REVENUES AND EXPENSES

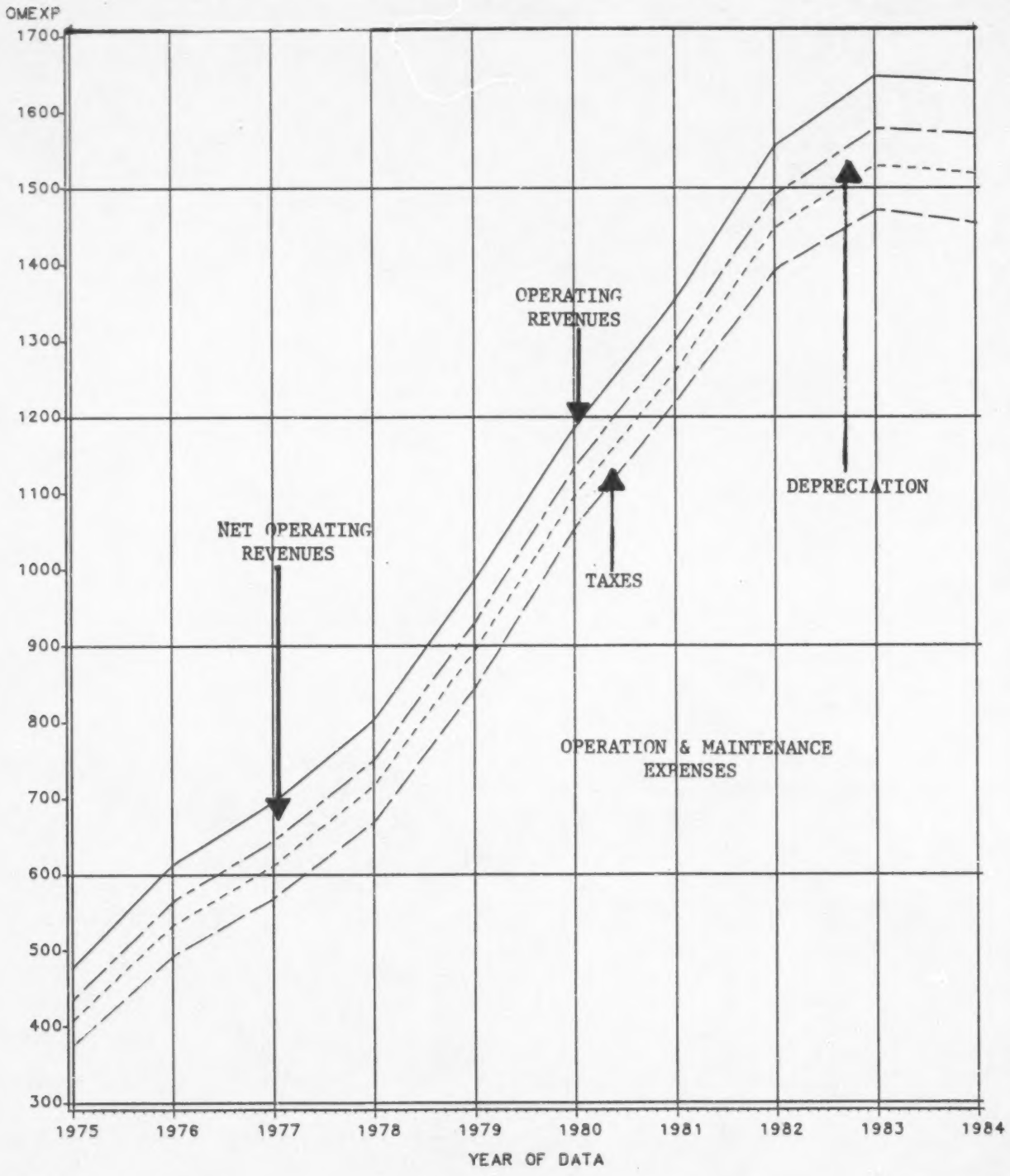
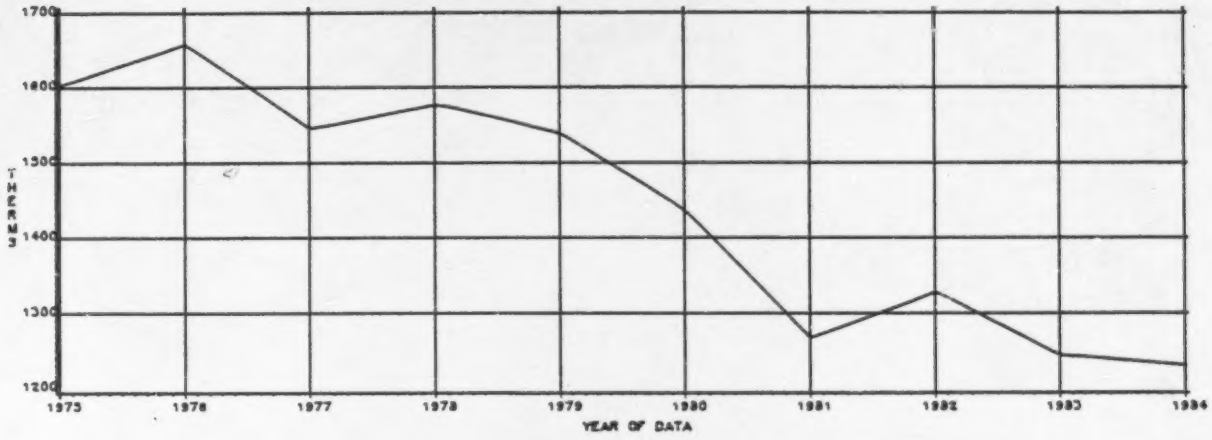
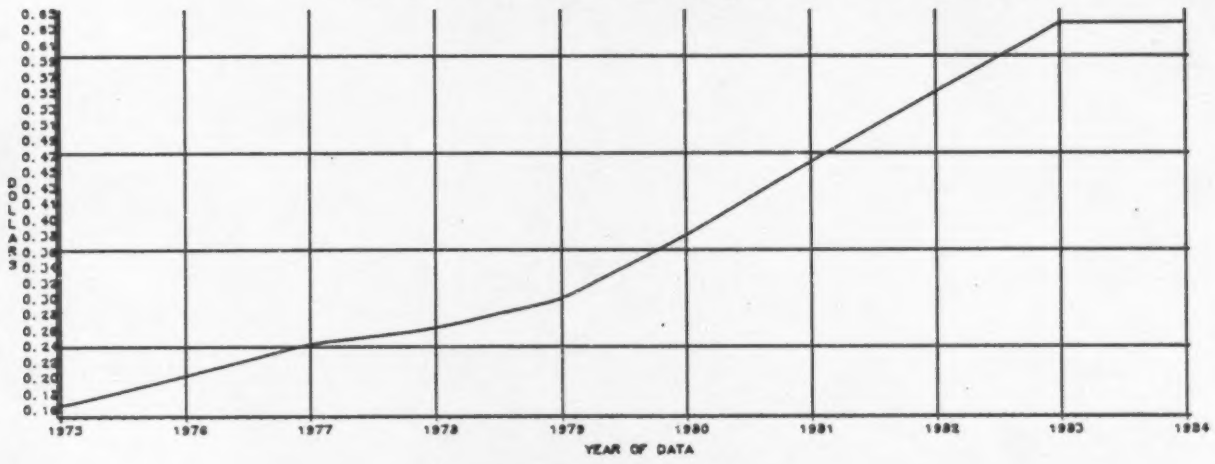


CHART 14
AVERAGE ANNUAL USE
RESIDENTIAL GAS SPACEHEATING CUSTOMERS



REVENUE PER THERM
RESIDENTIAL GAS SPACEHEATING CUSTOMERS



AVERAGE ANNUAL BILL
RESIDENTIAL GAS SPACEHEATING CUSTOMERS

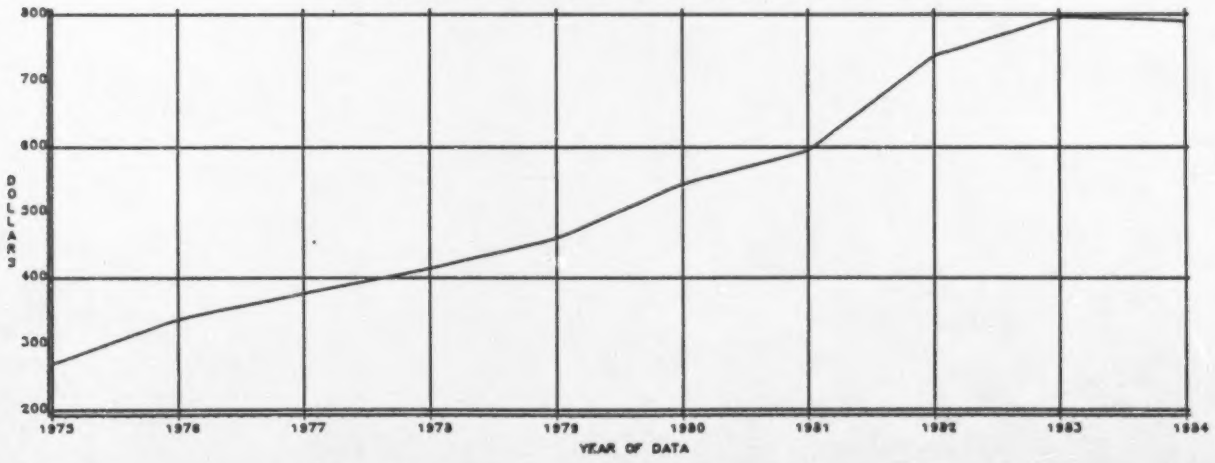
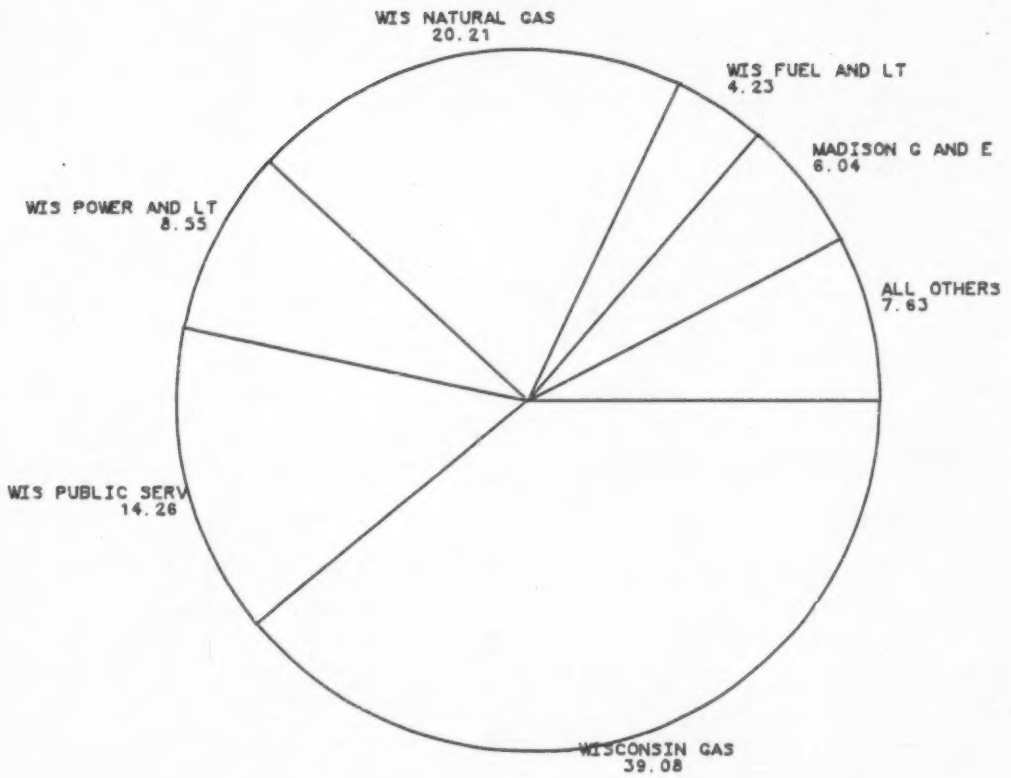


CHART 15
REVENUES OF WISCONSIN GAS UTILITIES IN PERCENT OF TOTAL SALES TO ULTIMATE CONSUMERS 1984

SUM OF PERCENT BY UTILITY



Revenue and Consumption Ratios

The following table shows average revenue per therm, therms sold per customer and revenue per customer for each of the principle classes of service.

	1984	1983	1982
Revenue Per Therm (Cents)			
Residential - General	74.6	73.4	63.4
Residential - Space Heating	64.1	64.0	55.5
Commercial and Industrial - Firm	50.4	52.1	46.9
Commercial and Industrial - Interruptible	41.4	42.5	42.0
Commercial and Industrial - Space Heating	53.3	55.2	49.2
Therms Per Customer			
Residential - General	330	338	362
Residential - Space Heating	1,229	1,242	1,326
Commercial and Industrial - Firm	41,828	42,970	45,965
Commercial and Industrial - Interruptible	460,239	439,740	435,343
Commercial and Industrial - Space Heating	7,519	7,503	7,908
Revenue Per Customer			
Residential - General	$ 247	$ 248	$ 229
Residential - Space Heating	788	795	737
Commercial and Industrial - Firm	21,082	22,372	21,546
Commercial and Industrial - Interruptible	190,349	186,752	182,828
Commercial and Industrial - Space Heating	4,009	4,142	3,891

Revenue per therm increased for all residential customer classifications in 1984. There was a decrease for all commercial and industrial customers in 1984. Therms sold per customer decreased for all consumer classifications except commercial and industrial interruptible and space heating. Revenue per customer decreased for all classes of service except commercial and industrial interruptible. Chart 14 presents a comparison of average residential bills and consumption over a 9-year period. Although consumption has been declining slightly in recent years the cost per therm has increased some with a decline in total bills except for commercial and industrial interruptible.

Gas Utility Plant Statistics

Table 14 supplies a summary of operating and plant statistics of the gas utility industry in Wisconsin. Over 99.9% of the 3,056 million therms delivered to mains in 1984 was natural gas. Almost 19,636 miles of main were in service at the close of 1984, exclusive of that owned by the pipeline companies. This presents a 0.9% increase over a year earlier.

Data on Individual Utilities

Individual company statistics for 1984 are presented in Table 15. Chart 15 shows a breakdown by company of total sales to ultimate consumers. The Wisconsin Gas Company accounted for 39.1% of total sales revenue from ultimate consumers and the five largest utilities made up 88.1% of the total.

TABLE 12

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN GAS UTILITIES 1/
1984-1982

	1984	1983	1982
Operating Revenues			
Sales to Ultimate Consumers	$ 1,631,649,910	$ 1,633,351,810	$ 1,541,089,692
Sales to Other Gas Utilities	0	5,356,022	4,630,851
Total Sales of Gas	$ 1,631,649,910	$ 1,638,707,832	$ 1,545,720,543
Other Operating Revenues	7,196,332	9,363,700	10,040,276
Total Operating Revenues	$ 1,638,846,242	$ 1,648,071,532	$ 1,555,760,819
Operating Expenses			
Production			
Other Gas Expenses	$ 297,991	$ 260,412	$ 292,011
Purchased Gas - Natural	1,269,065,441	1,303,325,560	1,239,917,539
Storage	857,918	633,348	895,948
Total Production and Expense	$ 1,270,221,350	$ 1,304,219,320	$ 1,241,105,498
Transmission and Distribution	56,941,492	52,980,267	51,263,259
Customer Accounts	44,205,162	38,734,046	33,660,943
Customer Services	18,034,844	17,786,358	16,138,740
Sales Promotion	2,623,394	1,189,458	927,059
Administrative and General	61,042,629	56,682,638	50,767,201
Total Operation and Maint.	$ 1,453,068,871	$ 1,471,592,087	$ 1,393,862,700
Depreciation 2/	50,597,059	48,573,513	43,883,011
Taxes Other than Income Taxes	23,054,541	20,395,303	19,359,227
Income Taxes	43,061,346	38,438,222	35,074,436
Total Operating Expenses	$ 1,569,781,817	$ 1,578,999,125	$ 1,492,179,374
Net Operating Revenues	$ 69,064,425	$ 69,072,407	$ 63,581,445

1/ Excluding out-of-state operations except where noted.
2/ Including amortization of plant acquisition adjustments, conversion costs, and other utility plant not subject to charges for depreciation.

TABLE 13

SALES TO ULTIMATE CUSTOMERS BY CLASSES
WISCONSIN GAS UTILITIES 1/
1984-1982

	1984	1983	1982
Revenue from Gas Sold to Ultimate Consumers			
Residential - General	$ 23,482,982	$ 24,641,061	$ 23,608,319
Residential - Space Heating	711,089,269	704,471,665	643,031,132
Commercial and Industrial - Firm	188,152,967	202,533,251	201,438,349
Commercial and Industrial - Interruptible	365,279,236	353,708,472	346,275,960
Commercial and Industrial - Space Heating	337,384,982	340,048,112	320,619,541
Interdepartmental	6,260,474	7,949,249	6,116,391
Total	$ 1,631,649,910	$ 1,633,351,810	$ 1,541,089,692
Therms of Gas Sold to Ultimate Consumers			
Residential - General 2/	31,474,544	33,554,400	37,265,639
Residential - Space Heating	1,108,761,854	1,099,887,237	1,157,750,061
Commercial and Industrial - Firm	373,312,147	389,005,947	429,722,484
Commercial and Industrial - Interruptible	883,198,540	832,867,023	824,540,047
Commercial and Industrial - Space Heating	632,837,389	615,988,852	651,660,418
Interdepartmental	14,734,237	18,225,228	14,652,253
Total	3,044,318,711	2,989,528,687	3,115,590,902
Average Number of Customers			
Residential - General 2/	95,264	99,238	103,028
Residential - Space Heating	902,172	885,763	872,768
Commercial and Industrial - Firm	8,925	9,053	9,349
Commercial and Industrial - Interruptible	1,919	1,894	1,894
Commercial and Industrial - Space Heating	84,161	82,098	82,404
Interdepartmental	8	8	9
Total	1,092,449	1,078,054	1,069,452

1/ Excluding out-of-state operations.
2/ The decline in residential consumption and customers is due to the transfer of residential customers to the space heating classification when gas furnaces are installed.

TABLE 14

OPERATING AND PLANT STATISTICS
WISCONSIN GAS UTILITIES 1/
1984-1982

	1984	1983	1982
Disposition of Gas Delivered to Mains (Therms)			
Gas Sold in Wisconsin			
To Ultimate Consumers	3,044,318,711	2,989,528,687	3,115,590,902
To Other Gas Utilities	0	11,100,000	11,334,000
Total	3,044,318,711	3,000,628,687	3,126,924,902
Gas Used by Company	6,237,808	5,857,593	6,469,885
Total Sold and Used	3,050,556,519	3,006,486,280	3,133,394,787
Gas Unaccounted for	5,844,868	15,433,922	(7,220,333)
Gas Delivered to Mains	3,056,401,387	3,021,920,202	3,126,174,454
Percentage of Gas Unaccounted for	0.19 %	0.51 %	(0.23) %
Gas Produced (Therms)			
Liquefied Petroleum Gas	64,054	18,931	129,924
Natural Gas Purchased (Therms)			
From ANR Company	2,668,771,014	2,654,225,388	2,754,481,376
From Natural Gas Pipe Line Co.	78,304,160	73,943,381	75,777,670
From Midwest Gas Transmission Company	36,275,082	26,015,192	29,128,618
From Northern Natural Gas Co.	267,456,167	265,140,094	267,495,772
Total Natural Gas Purchased	3,050,806,423	3,019,324,055	3,126,883,436
Total Gas Produced & Purch.	3,050,870,477	3,019,342,986	3,127,013,360
Net Inventory Change	5,530,910	2,577,216	(838,906)
Gas Delivered to Mains	3,056,401,387	3,021,920,202	3,126,174,454
Miles of Distribution and Transmission Mains 2/	19,636	19,462	19,345

1/ Excluding out-of-state operations.
2/ Not including transmission mains owned by pipeline companies.

TABLE 15

CONDENSED SUMMARY OF 1984 OPERATIONS
INDIVIDUAL GAS UTILITIES 1/

Utilities	Operating Revenue 2/	Operation and Maintenance	Depreciation and Amortization	Taxes Other Than Income Taxes	Income Taxes	Net Operating Revenues	Therms Sold 2/	Therms Produced	Therms Purchased 3/	Therms Produced & Purchased	Average Number of Customers 2/
Class a and B											
City Gas Co. of Antigo	$ 4,3[illegible]995	$ 4,004,219	$ 91,708	$ 53,568	$ 67,700	$ 155,800	7,998,568	0	7,842,707	7,842,707	3,379
Lake Superior District Power Co.	12,156,547	11,101,087	190,735	107,919	338,032	418,774	23,944,803	0	23,210,133	23,210,133	7,286
Madison Gas & Elec. Co.	99,009,899	82,925,031	4,703,762	2,107,284	2,909,508	6,364,314	171,421,949	0	165,771,947	165,771,947	70,924
Midwest Natural Gas Co.	4,839,815	4,580,246	126,723	57,429	22,500	52,917	9,662,150	0	9,662,718	9,662,718	3,712
Northern States Power Co.	43,149,378	36,222,996	1,563,809	535,479	2,162,895	2,664,199	77,367,215	0	77,862,610	77,862,610	31,844
Superior Water, Light & Power Co.	11,429,270	9,998,818	385,326	185,394	421,830	437,902	18,283,621	4,299	18,754,434	18,758,733	8,803
Wisconsin Fuel & Light Co.	69,246,062	64,315,407	1,303,727	663,494	1,176,747	1,786,687	145,651,370	0	146,050,269	146,050,269	37,817
Wisconsin Gas Company	640,508,459	564,499,019	18,687,799	8,522,401	19,593,797	29,205,443	1,159,928,000	0	158,735,687	1,158,735,687	410,291
Wisconsin Natural Gas Company	331,279,148	288,946,877	12,143,641	5,394,938	7,959,137	16,834,555	619,122,502	0	619,875,407	619,875,407	222,759
Wisonsin Power & Light Co.	140,055,018	129,551,475	5,017,570	2,151,523	1,948,655	1,385,795	250,136,000	0	252,823,497	252,823,497	101,981
Wisconsin Public Service Corp.	233,721,104	214,120,458	4,937,004	2,509,725	4,743,188	7,410,729	461,818,994	0	60,545,605	460,545,605	150,961
Wisconsin Southern Gas Co.	41,858,465	36,053,725	1,268,930	674,466	1,648,300	2,213,044	85,225,228	9,755	86,448,550	86,508,305	37,932
Subtotal	$1,631,626,160	$1,446,319,358	$50,420,734	$22,963,620	$42,992,289	$68,930,159	3,030,560,400	64,054	027,583,564	3,027,647,618	1,087,689
Class C & D 5/											
Elroy Gas, Inc.	870,100	811,998	16,239	17,556	(261)	24,568	1,410,924	0	1,415,780	1,415,780	470
Muny Natural Gas Co. 4/	1,430,821	1,374,507	18,636	17,340	0	20,338	3,058,380	0	3,006,010	3,006,010	814
Natural Gas. Inc.	1,594,407	1,540,158	43,961	19,053	(2,982)	(5,783)	3,189,600	0	3,167,250	3,167,250	741
St. Croix Valley Natural Gas Co.	3,324,754	3,022,850	97,489	36,972	72,300	95,143	6,099,407	0	6,131,971	6,131,971	2,735
Subtotal	$ 7,220,082	$ 6,749,513	$ 176,325	$ 90,921	$ 69,057	$ 134,266	13,758,311	0	13,721,011	13,721,011	4,760
Total All Utilities	$1,638,846,242	$1,453,068,871	$50,597,059	$23,054,541	$43,061,346	$69,064,425	3,044,318,711	64,054	041,304,575	3,041,368,629	1,092,449

( ) Denotes Negative Figure.
1/ Data includes Wisconsin operations only.
2/ Includes Interdepartmental Sales and Sales for Resale.
3/ Out-of-state sales by Lake Superior District Power and Wisconsin Public Service Corporation were subtracted from the therms purchased figure to give an estimated figure for Wisconsin only.
4/ Municipally owned.
5/ There are no Class D private gas utilities.

TELEPHONE UTILITY SUMMARY

Comparative statistics of telephone utilities in Wisconsin during the period 1982 -1984 are presented in this session. In addition, selected data over a 10-year period are presented in Chart 16. The coverage is summarized below:

Table 16 - Comparative Statement of Revenues and Expenses, Wisconsin Telephone Utilities, 1984 -1982
Table 17 - Access Lines Served by Wisconsin Telephone Utilities, 1984-1982
Table 18 - Condensed Summary of 1984 Operations, Individual Telephone Utilities

Chart 16 - Comparison of Revenues and Expenses, Wisconsin Telephone Utilities, 1975 -1984

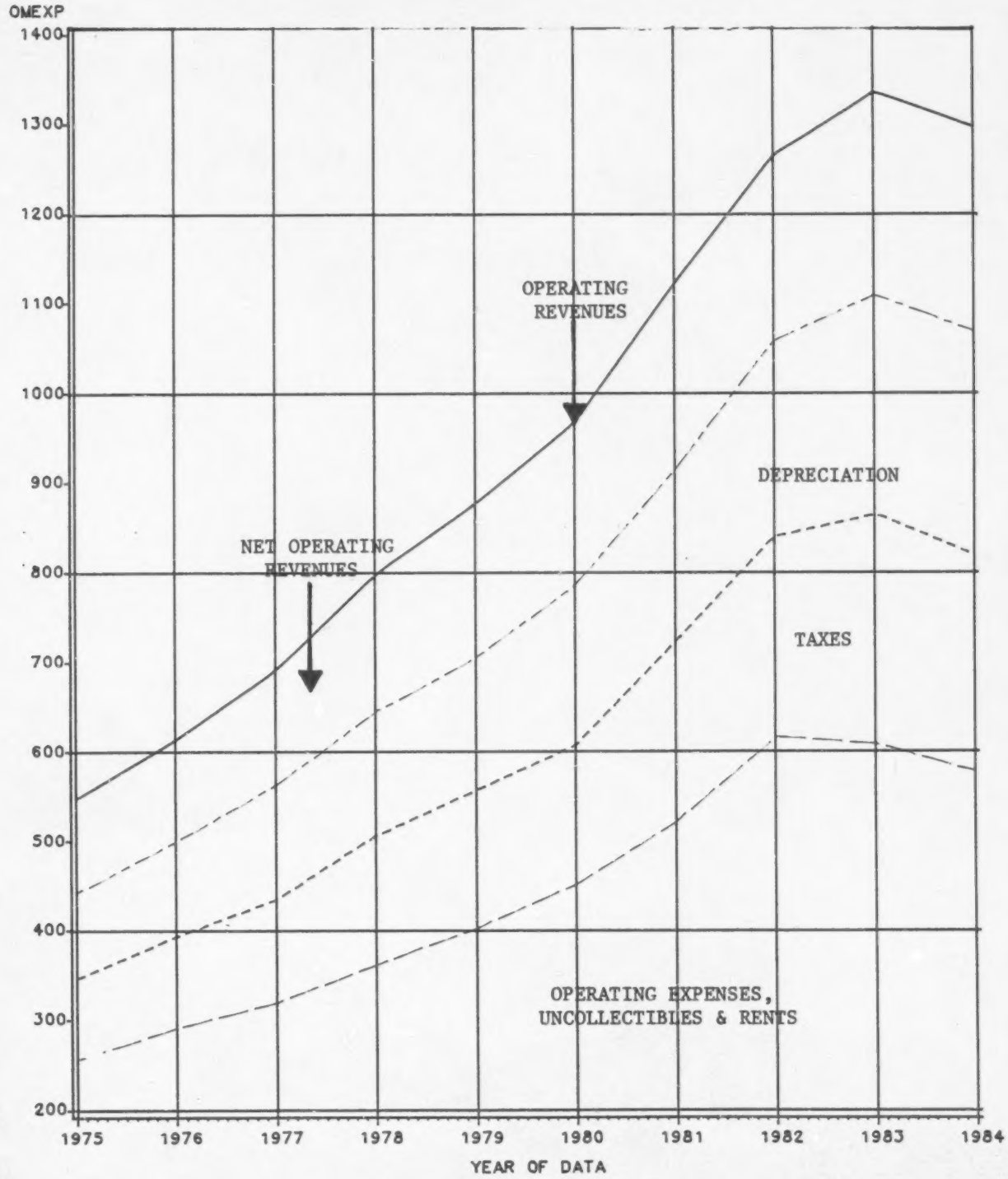
Telephone Utility Revenues and Expenses

Table 16 shows that telephone revenues in Wisconsin declined over $39.2 million in 1984, a drop of 3.9%. Total operating expenses were down about $40.8 million and net operating revenue rose about $1.6 million or 0.7%.

Toll service revenues decreased 0.5% during the year while local service revenues increased by 1.9%.

CHART 16

WISCONSIN TELEPHONE UTILITIES REVENUES AND EXPENSES



Access Line Data

Access Line data is presented in Table 17. About 2.2 million access lines were in service at the close of 1984. Approximately 78% are used by residential subscribers, 20% by business subscribers and 2% representing miscellaneous customers such as foreign exchange in and other common carrier connections.

Individual Companies

Table 18 presents individual company data for each of the 99 companies operating in the State. The Wisconsin Bell Company alone accounted for 67.7% of the revenues and served 66.9% of the customer access lines. General Telephone Company accounted for another 17.1% of the total revenues and served 15.1% of the access lines.

TABLE 16

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN TELEPHONE UTILITIES
1984-1982

	1984	1983	1982
Operating Revenues			
Exchange Service Revenue	$ 624,479,586	$ 612,861,420	$ 585,717,996
Toll Service Revenue	287,663,993	647,142,031	609,469,433
Miscellaneous Operating Rev.	384,174,896	75,506,418	69,559,178
Total Operating Revenues	$ 1,296,318,475	$ 1,335,509,869	$ 1,264,746,607
Operating Expenses			
Maintenance Expense	$ 228,706,747	$ 245,037,516	$ 240,417,976
Traffic Expense	36,189,455	43,751,136	47,062,225
Commercial Expense 1/	110,287,134	118,176,584	129,738,806
General and Miscellaneous Exp.	189,067,219	181,288,107	178,244,414
General Services and Licenses	12,027,627	19,150,205	19,459,881
Total Operation and Maintenance	$ 576,278,182	$ 607,403,548	$ 614,923,302
Depreciation and Amortization	248,355,674	243,208,693	216,718,134
Taxes Other Than Income Taxes	116,103,295	125,081,838	118,522,678
Income Taxes	126,627,382	132,495,248	107,199,342
Total Operating Expenses	$ 1,067,364,533	$ 1,108,189,327	$ 1,057,363,456
Net Operating Revenue	$ 228,953,942	$ 227,320,542	$ 207,383,151

1/ Includes uncollectible accounts.

TABLE 17

CUSTOMER ACCESS LINES SERVED BY WISCONSIN TELEPHONE COMPANIES 1984-1982

	December 31, 1984	December 31, 1983	December 31, 1982
Residential	1,721,264	1,715,902	1,701,716
Business 1/	457,409	447,210	434,865
Miscellaneous 2/	37,294	33,910	26,982
Total Customer Access Lines	2,215,967	2,197,022	2,163,563

1/ Includes pay and mobile lines.

2/ Includes foreign exchange in and other common carrier connections.

TABLE 18

A SUMMARY OF 1984 OPERATIONS

FOR INDIVIDUAL TELEPHONE UTILITIES

UTILITY	OPERATING REVENUE	OPERATION AND MAINTENANCE	DEPN. AND AMORT.	TAXES OTHER THAN INCOME TAXES	INCOME TAXES	TOTAL OPERATING EXPENSE	NET OPERATING REVENUE	TOTAL STATIONS CLOSE OF YEAR
AMERY TELEPHONE COMPANY	1,621,126	658,404	490,124	133,498	51,337	1,333,363	287,763	4,322
AMHERST TELEPHONE COMPANY	1,554,193	363,196	456,059	120,814	163,120	1,103,188	451,005	3,083
BADGER STATE TELEPHONE COMPANY,INC	1,536,907	719,878	381,099	114,374	68,442	1,283,793	253,114	3,713
BALDWIN TELECOM, INC.	1,044,986	459,138	215,311	90,043	55,218	819,710	225,276	2,515
BAYLAND TELEPHONE INC	469,079	200,858	122,127	32,684	24,105	379,775	89,305	1,115
BELMONT TELEPHONE COMPANY	290,326	117,043	59,076	16,175	20,280	212,575	77,752	693
BERGEN TELEPHONE COMPANY	81,511	56,417	13,733	1,764	2,059	73,972	7,538	156
BLACK EARTH TELEPHONE COMPANY	386,296	203,047	87,901	24,658	19,111	334,716	51,580	1,000
BLOOMER TELEPHONE COMPANY	795,474	299,925	211,936	58,408	48,381	618,650	176,824	2,481
BONDUEL TELEPHONE COMPANY	543,880	273,429	109,315	35,922	51,216	469,881	73,999	1,345
BRUCE TELEPHONE COMPANY, INC	803,015	250,102	180,876	55,584	43,942	530,504	272,511	1,249
BURLINGTON BRIGHTON & WHEATLAND TE	929,484	548,970	178,403	62,435	21,211	811,019	118,465	2,489
CASCO TELEPHONE COMPANY	391,058	189,545	132,582	29,013	8,957	360,098	30,961	956
CENCOM OF WISCONSIN, INC.	9,364,111	4,508,376	2,430,829	867,761	8,944	7,815,910	1,548,201	17,712
CENTRAL STATE TELEPHONE COMPANY	3,288,299	1,317,481	770,723	315,987	154,611	2,558,802	729,497	6,020
CHEQUAMEGON TELEPHONE COOP INC	3,315,223	1,234,257	832,898	275,448	0	2,342,603	972,620	5,026
CHIBARDUN TELEPHONE COOPERATIVE IN	1,701,633	782,064	545,968	152,884	0	1,480,915	220,718	4,180
CITIZENS TELEPHONE COOPERATIVE INC	478,927	174,986	116,628	33,006	0	324,621	154,306	1,509
CLEAR LAKE TELEPHONE COMPANY, INC	502,989	243,450	114,452	35,379	23,614	416,895	86,094	1,063
COCHRANE COOPERATIVE TELEPHONE CO	415,058	147,737	106,840	27,172	0	281,749	133,309	1,003
COON VALLEY FARMERS TELEPHONE CO	434,945	196,200	99,884	28,211	25,661	349,956	84,989	1,753
CRANDON TELEPHONE COMPANY	932,670	413,286	272,118	77,400	7,397	770,202	162,468	1,940
CUBA CITY TELEPHONE EXCHANGE COMPA	646,004	260,970	125,176	46,304	49,630	482,080	163,925	1,405
DICKEYVILLE TELEPHONE CORPORATION	388,463	165,018	104,217	21,899	7,024	298,158	90,305	891
DODGE COUNTY TELEPHONE COMPANY	350,914	188,475	79,996	22,883	17,861	309,215	41,698	852
FAIRWATER BRANDON ALTO TELEPHONE C	477,401	263,354	102,080	32,304	7,325	405,064	72,337	1,087
FARMERS INDEPENDENT TELEPHONE CO	883,405	384,376	177,460	66,638	93,213	721,687	161,718	2,024
FARMERS TELEPHONE COMPANY	2,333,474	718,846	602,498	190,430	199,962	1,711,737	621,737	5,016
FENNIMORE TELEPHONE COMPANY	703,383	356,875	167,555	53,073	5,140	582,643	120,740	1,506
FOOTVILLE TELEPHONE COMPANY	369,076	162,465	93,316	26,108	17,068	298,958	70,118	755
FORESTVILLE TELEPHONE COMPANY, INC	613,651	266,811	117,618	40,351	89,969	514,749	98,902	1,656
GENERAL TELEPHONE CO OF WI/W. BORN	221,058,151	90,773,933	50,610,279	20,778,623	22,375,769	184,538,604	36,519,547	331,929
GREENWOOD TELEPHONE COMPANY	463,158	268,488	92,642	29,434	16,255	406,819	56,339	1,267
HAGER CITY TELEPHONE COMPANY	701,180	423,494	250,093	55,126	-2,449	726,264	-25,084	1,512
HEADWATERS TELEPHONE COMPANY	2,286,720	664,467	587,409	199,041	159,330	1,610,247	676,473	3,393

TABLE 18 (CONTINUED)

UTILITY	OPERATING REVENUE	OPERATION AND MAINTENANCE	DEPN. AND AMORT.	TAXES OTHER THAN INCOME TAXES	INCOME TAXES	TOTAL OPERATING EXPENSE	NET OPERATING REVENUE	TOTAL STATIONS CLOSE OF YEAR
HILLSBORO TELEPHONE COMPANY INC	542,021	244,411	156,744	39,961	523	441,638	100,382	1,369
CENTURY TELEPHONE OF WIS., INC.	24,810,318	10,268,367	4,770,956	2,310,295	3,095,834	20,445,452	4,364,867	39,924
LAKEFIELD TELEPHONE COMPANY	541,379	189,867	157,339	36,071	4,922	388,199	153,181	1,182
LAKESHORE TELEPHONE COMPANY	567,909	313,874	117,948	44,776	11,316	487,714	80,194	1,356
LARSEN-READFIELD TELEPHONE COMPANY	714,081	310,883	145,681	53,382	74,993	584,939	129,142	1,835
LA VALLE TELEPHONE COOPERATIVE, IN	491,573	221,003	116,438	33,173	0	370,614	120,960	1,360
LEMONWEIR VALLEY TELEPHONE COMPANY	1,197,261	366,552	341,929	85,034	80,204	873,719	323,542	2,253
LUCK TELEPHONE COMPANY	610,145	264,963	154,553	44,761	27,989	492,267	117,878	1,642
MADELINE ISLAND TELEPHONE COMPANY	108,688	71,154	12,973	6,313	2,415	92,855	15,833	299
MANAWA TELEPHONE COMPANY, INC	869,900	374,542	251,533	70,798	24,327	721,200	148,700	1,741
MAPLE TELEPHONE COOPERATIVE, INC	114,368	34,011	12,752	7,497	0	54,260	60,108	281
MARQUETTE ADAMS TELEPHONE COOP INC	1,059,236	420,546	267,931	77,978	0	766,455	292,781	2,398
MID-PLAINS TELEPHONE INCORPORATED	7,328,116	2,336,293	1,357,833	664,977	1,054,614	5,413,717	1,914,399	12,678
MIDWAY TELEPHONE COMPANY	2,860,803	1,070,679	594,400	219,906	265,933	2,150,918	709,885	5,642
MILLTOWN MUTUAL TELEPHONE COMPANY	587,862	282,036	184,398	47,686	-722	513,398	74,465	1,579
MONDOVI TELEPHONE COMPANY	1,047,992	460,137	206,611	86,757	59,564	813,069	234,923	1,988
MONROE COUNTY TELEPHONE COMPANY	4,105,199	1,724,804	1,035,513	399,624	257,010	3,416,951	688,248	7,863
MOSEL CENTERVILLE TELEPHONE COMPAN	1,255,713	554,065	397,682	92,125	41,524	1,085,396	170,316	2,635
MOSINEE TELEPHONE COMPANY	1,328,388	625,044	341,715	113,567	37,228	1,117,553	210,835	3,147
MOUNT HOREB TELEPHONE COMPANY	1,243,377	516,506	293,592	105,219	52,889	968,205	275,171	2,486
MOUNT VERNON TELEPHONE COMPANY	2,052,081	976,336	492,622	154,475	97,712	1,721,145	330,936	4,226
NELSON TELEPHONE COOPERATIVE	1,661,006	708,348	475,590	134,762	0	1,318,700	342,306	3,164
NIAGARA TELEPHONE COMPANY	1,246,733	556,813	266,823	102,723	46,870	973,229	273,504	2,798
NORTHEAST TELEPHONE COMPANY	1,611,199	662,275	386,231	124,662	83,369	1,256,537	354,662	4,121
NORTH-WEST TELEPHONE COMPANY	26,158,246	10,440,612	6,099,946	2,438,917	1,252,992	20,232,467	5,925,779	47,702
NOVYS TELEPHONE COMPANY	135,367	75,666	23,949	12,919	0	112,534	22,833	504
PEOPLES TELEPHONE CO (MOUNT HOPE)	717,277	339,432	164,520	43,311	57,917	605,180	112,097	1,611
PEOPLES TELEPHONE CO, THE (RANDOLP	2,625,489	995,559	646,573	224,790	16,105	1,883,027	742,462	5,189
PLATTEVILLE TELEPHONE COMPANY	4,207,010	1,669,616	983,530	427,977	238,410	3,319,533	887,478	6,996
INDIANHEAD TELEPHONE CO.	910,157	304,043	275,202	79,439	72,960	731,644	178,513	1,466
PRICE COUNTY TELEPHONE COMPANY	1,212,772	548,744	356,505	113,058	-14,449	1,003,859	208,913	3,000
RHINELANDER TELEPHONE COMPANY	3,986,422	1,664,347	1,048,762	374,069	183,397	3,271,074	715,348	9,544
RIB LAKE TELEPHONE COMPANY	370,158	183,469	114,064	27,787	1,710	327,031	43,127	1,008
RICHLAND GRANT TELEPHONE COOPERATI	835,434	408,004	194,493	66,042	0	668,539	166,895	2,167
ROCK RIVER TELEPHONE COMPANY	638,289	359,574	202,957	43,617	-35,365	570,782	67,507	1,308

TABLE 18 (CONTINUED)

UTILITY	OPERATING REVENUE	OPERATION AND MAINTENANCE	DEPN. AND AMORT.	TAXES OTHER THAN INCOME TAXES	INCOME TAXES	TOTAL OPERATING EXPENSE	NET OPERATING REVENUE	TOTAL STATIONS CLOSE OF YEAR
ST CROIX TELEPHONE COMPANY	2,365,839	718,939	522,818	232,811	236,147	1,710,715	655,124	4,666
SCANDINAVIA TELEPHONE COMPANY	944,734	423,887	269,620	63,467	22,308	779,282	165,452	1,681
SHARON TELEPHONE COMPANY	374,065	260,355	53,747	36,503	5,787	356,393	17,673	874
SHELL LAKE TELEPHONE COMPANY	604,258	278,815	189,599	47,658	2,898	518,970	85,288	1,751
SIREN TELEPHONE COMPANY INCORPORAT	493,770	264,847	122,983	37,727	4,841	430,398	63,371	1,492
SOLON SPRINGS TELEPHONE COMPANY	5,771,252	2,131,069	1,103,747	534,998	736,368	4,506,182	1,265,070	12,217
SOMERSET TELEPHONE COMPANY, INC	514,832	198,893	108,271	38,318	39,564	385,046	129,786	1,001
SOUTHEAST TELEPHONE CO OF WISC, IN	2,170,066	868,238	471,673	197,748	80,669	1,618,328	551,738	4,856
SPRING VALLEY TELEPHONE COMPANY, I	351,139	168,732	54,628	27,062	27,517	277,939	73,200	786
STATE LONG DISTANCE TELEPHONE CO	3,131,633	1,393,771	663,743	286,194	197,030	2,540,738	590,895	5,136
STOCKBRIDGE & SHERWOOD TELEPHONE C	887,260	460,328	211,329	54,680	35,870	762,207	125,052	2,013
SULLIVAN TELEPHONE COMPANY	529,342	228,570	123,523	31,986	42,640	426,719	102,624	1,456
TENNEY TELEPHONE COMPANY	319,049	157,026	54,888	24,217	14,539	250,670	68,379	844
THORP TELEPHONE COMPANY	887,156	468,992	158,387	79,633	29,479	736,492	150,664	1,859
TRI-COUNTY TELEPHONE COOP, INC	1,284,718	647,982	346,880	96,217	0	1,091,080	193,639	3,175
TURTLE LAKE TELEPHONE COMPANY INC	451,240	231,513	106,629	33,730	-1,691	370,181	81,059	1,049
UNION TELEPHONE COMPANY	1,778,332	510,382	436,785	38,467	249,896	1,235,529	542,803	2,998
UNITED TELEQUIPMENT CORPORATION	6,748,455	2,815,386	1,599,381	674,715	-3,500	5,085,982	1,662,473	10,580
UNIVERSAL TEL CO OF NORTHERN WIS I	4,402,172	1,680,768	813,190	383,039	646,332	3,523,329	878,843	10,131
URBAN TELEPHONE CORPORATION	5,610,715	2,590,094	955,978	569,041	492,041	4,607,154	1,003,561	15,494
VALDERS TELEPHONE COMPANY	780,209	437,975	189,878	49,472	18,829	696,153	84,056	1,719
VERNON TELEPHONE COOPERATIVE	1,795,499	947,373	421,438	146,644	0	1,515,454	280,045	5,077
VIROQUA TELEPHONE COMPANY	1,557,039	917,650	295,442	155,167	21,348	1,389,607	167,432	2,852
WAUNAKEE TELEPHONE COMPANY INC	1,219,221	625,325	273,857	87,704	44,063	1,030,949	188,272	2,955
WAYSIDE TELEPHONE COMPANY	402,405	243,321	95,429	32,501	0	371,251	31,154	1,127
WEST WISCONSIN TELEPHONE COOP, INC	1,695,532	714,137	567,196	135,362	0	1,416,695	278,837	3,060
WISCONSIN BELL, INC.	877,429,368	402,748,995	152,334,062	77,991,203	91,914,368	724,988,628	152,440,740	1,474,188
WITTENBERG TELEPHONE COMPANY	805,225	321,857	223,531	59,051	6,291	610,731	194,494	1,686
WOOD COUNTY TELEPHONE COMPANY	9,105,815	4,025,225	1,897,535	898,699	837,353	7,658,812	1,447,003	19,307
TOTAL	1,296,318,475	576,278,182	248,355,674	116,103,295	126,627,383	1,067,364,534	228,953,942	2,203,108

WATER UTILITIES

Comparative statistics of water utilities operating in Wisconsin during the period from 1982 through 1984 are presented in this section. Chart 17 shows a summary of the income account over a ten-year period. The coverage is summarized below:

Table 19 - Comparative Statement of Revenues and Expenses Wisconsin Water Utilities, 1984 -1982.
Table 20 - Operating and Plant Statistics, Wisconsin Water Utilities, 1984 -1982.
Table 21 - Condensed summary of 1984 Operations, Individual Water Utilities

Chart 17 - Comparison of Revenues and Expenses, Wisconsin Water Utilities, 1975-1984.

Water Utility Revenues and Expenses

Chart 17 shows that revenues and expenses advanced steadily over the past nine years. Taxes are up 54% for the period while operation and maintenance expenses are up 113%, depreciation rose 94%, operating revenues rose 107% and net operating revenue increased 198%.

Revenues increased 6.9% and operating expenses were up 6.2% during 1984. Net operating revenue increased 10.3%.

Operating and Plant Statistics

The total number of water customers served increased 1.4% in 1984 while gallons of water pumped was down 2.2%. Electric pumpage accounted for 99.9% of the total and the remainder was by internal combustion. Total miles of main increased 0.8%.

Data on Individual Utilities

Table 21 shows selected data on each Class A and B water utility, all but two of which are municipally owned. The table also shows totals for the smaller utilities. Municipal utilities accounted for 96.3% of the total operating revenue and served 98.5% of the customers. Superior, served by Superior Water, Light, and Power Company, and Beloit and Ripon served by Wisconsin Power and Light Company, were the largest cities served by private utilities.

CHART 17
WISCONSIN WATER UTILITIES REVENUES AND EXPENSES

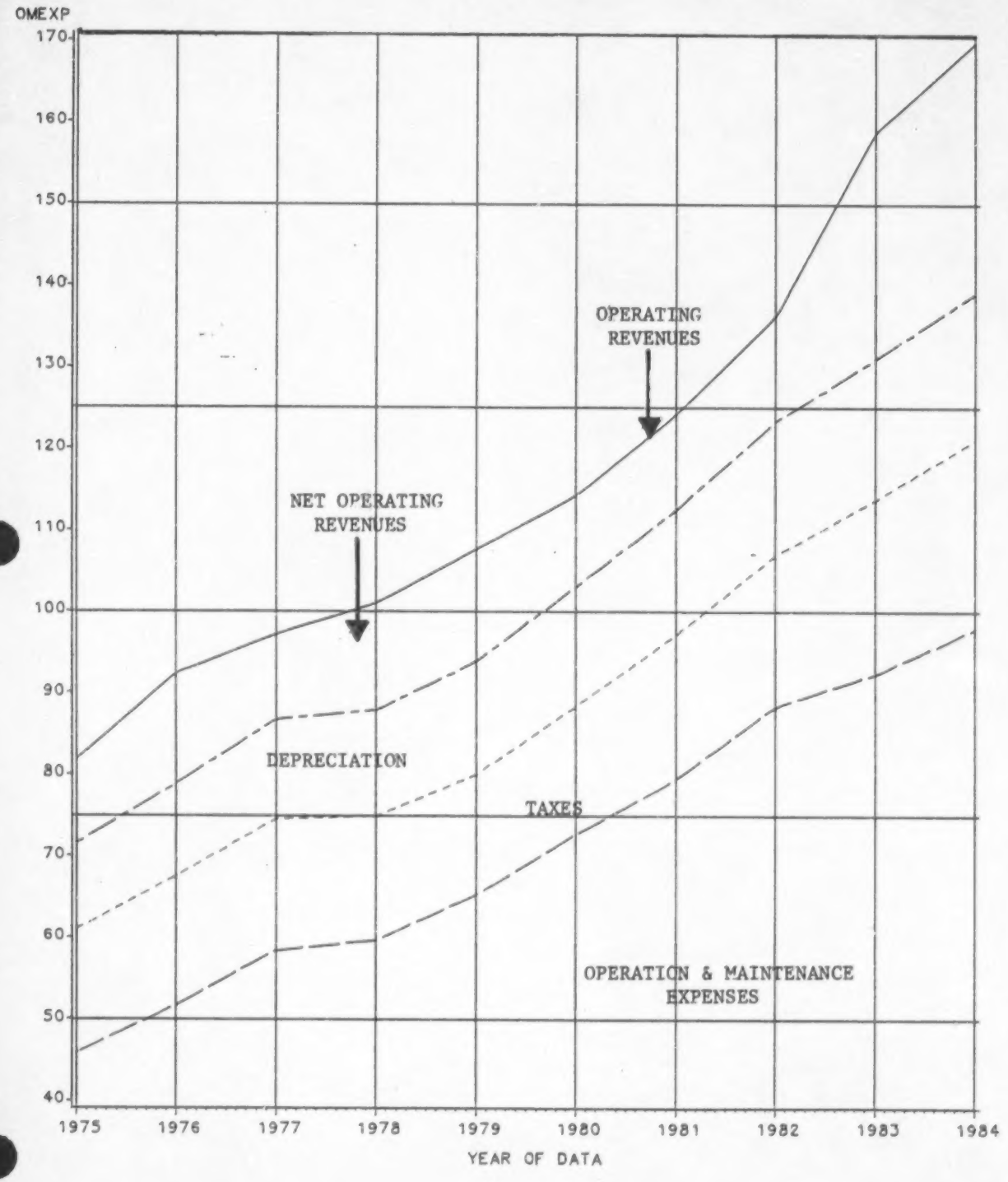


TABLE 19

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN WATER UTILITIES
1984-1982

	1984	1983	1982
All Water Utilities			
Operating Revenues			
Sales to General Consumers	$ 125,441,108	$ 116,963,306	$ 98,300,045
Interdepartmental Sales	285,070	91,035	65,460
Sales to Other Water Utilities	4,074,089	4,004,809	3,564,898
Fire Protection and Other Municipal Sales	36,877,050	34,763,635	31,357,345
Total Sales of Water	$ 166,677,317	$ 155,822,785	$ 133,287,748
Miscellaneous Operating Revenue	3,103,955	2,990,151	2,850,780
Total Operating Revenues	$ 169,781,272	$ 158,812,936	$ 136,138,528
Operating Expenses			
Source of Water Supply (Excluding Purchases)	$ 1,448,715	$ 1,458,547	$ 1,920,941
Water Purchases	5,218,435	4,632,168	3,716,243
Pumping Expenses	25,019,042	24,543,546	22,840,075
Purification	13,085,271	12,548,779	12,034,928
Total Production Expense	$ 44,771,463	$ 43,185,040	$ 40,512,187
Transmission and Distribution	25,558,773	23,035,062	23,234,904
Customer Accounts	6,471,449	6,389,319	6,190,109
Sales	70	293	210
Administrative and General Expenses	21,185,936	19,863,704	18,539,049
Total Operation and Maintenance Expense	$ 97,987,691	$ 92,473,418	$ 88,476,459
Depreciation and Amortization	17,990,044	17,259,406	16,467,982
Taxes Other Than Income Taxes	22,600,179	20,743,893	18,278,580
Income Taxes	575,312	565,681	207,414
Total Operating Expenses	$ 139,153,226	$ 131,042,398	$ 123,430,435
Net Operating Revenues	$ 30,628,046	$ 27,770,538	$ 12,708,093

TABLE 19 (Concluded)

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN WATER UTILITIES
1984-1982

	1984	1983	1982
Private Water Utilities			
Total Operating Revenues	$ 6,183,253	$ 5,844,497	$ 5,048,419
Operation and Maintenance	3,364,993	$ 3,076,219	$ 3,021,732
Depreciation and Amortization	631,276	600,971	527,614
Taxes Other Than Income Taxes	481,471	430,420	386,141
Income Taxes	575,312	565,681	207,414
Total Operating Expenses	$ 5,053,052	$ 4,673,291	$ 4,142,901
Net Operating Revenues	$ 1,130,201	$ 1,171,206	$ 905,518
Municipal Utilities			
Total Operating Revenues	$163,598,019	$152,968,439	$131,090,109
Operation and Maintenance	94,622,698	$ 89,397,199	$ 85,454,727
Depreciation and Amortization	17,358,768	16,658,435	15,940,368
Taxes Other Than Income Taxes	22,118,708	20,313,473	17,892,439
Total Operating Expenses	$134,100,174	$126,369,107	$119,287,534
Net Operating Revenues	$ 29,497,845	$ 26,599,332	$ 11,802,575

TABLE 20

OPERATING AND PLANT STATISTICS
WISCONSIN WATER UTILITIES
1984-1982

	1984	1983	1982
Average Number of Customers			
Residential	856,722	846,941	835,650
Commercial	92,255	90,596	88,741
Industrial	7,683	7,323	7,256
Total Total	956,660	944,860	931,647
Private Utilities	26,873	26,923	26,943
Municipal Utilities	929,787	917,937	904,704
Total	956,660	944,860	931,647
Gallons of Water Pumped Into Distribution System (000 Omitted)			
Electric	183,904,431	190,174,947	181,521,197
Internal Combustion	16,121	889	4,696
Steam	0	0	0
Total	183,920,552	190,175,836	181,525,893
Private Utilities	4,477,141	4,165,624	4,439,291
Municipal Utilities	179,443,411	186,010,212	177,086,602
Total	183,920,552	190,175,836	181,525,893
Miles of Distribution Main on December 31			
Private Utilities	363	328	320
Municipal Utilities	13,754	13,672	13,401
Total	14,117	14,000	13,721

TABLE 21

CONDENSED SUMMARY OF 1984 OPERATIONS
INDIVIDUAL WATER UTILITIES

Utilities	Operating Revenues	Operation and Maintenance	Depreciation and Amortization	Taxes Other Than Income Taxes	Income Taxes	Total Operating Expenses	Net Operating Revenues	Average Number of Customers 1/
Private Utilities Class A & B								
Superior Water, Light & Power Co. (SWLP)	$ 2,448,411	$ 1,433,311	$ 190,132	$ 200,141	$ 186,100	$ 2,009,684	$ 438,727	9,486
Wisconsin Power & Light Co. (WPL)	3,492,876	1,735,102	409,017	265,218	385,274	2,794,611	699,265	15,907
Subtotal	$ 5,942,287	$ 3,168,413	$ 599,149	$ 465,359	$ 571,374	$ 4,804,295	$ 1,137,992	25,393
11 Class D Water Utilities 2/	240,966	196,580	32,127	16,112	3,938	248,757	(7,791)	1,694
Total Private Utls.	$ 6,183,253	$ 3,364,993	$ 631,276	$ 481,471	$ 575,312	$ 5,053,052	$ 1,130,201	27,087
Municipal Utilities Class A								
Appleton	$ 3,106,633	$ 1,936,307	$ 261,759	$ 362,427	$ 0	$ 2,560,493	$ 546,140	20,444
Cudahy	1,263,795	674,010	126,060	196,624	0	996,694	267,101	5,196
Eau Claire	3,066,311	1,365,121	276,192	403,298	0	2,044,611	1,021,700	18,237
Fond du Lac	1,684,930	968,727	151,983	155,844	0	1,276,554	408,276	12,068
Glendale	994,259	561,616	112,003	107,288	0	780,907	213,352	4,459
Green Bay	4,479,099	2,352,672	431,578	494,025	0	3,278,275	1,200,824	29,723
Janesville	1,817,068	917,270	154,558	250,606	0	1,322,434	494,634	16,853
Kaukauna	608,592	347,652	68,016	88,223	0	503,891	104,701	3,767
Kenosha	4,278,698	2,385,418	395,812	527,147	0	3,308,377	970,321	23,188
La Crosse	2,123,438	1,284,766	159,585	284,381	0	1,728,732	394,706	15,076
Madison	7,650,684	4,536,880	729,622	1,004,144	0	6,270,646	1,380,038	46,583
Manitowoc	1,575,762	1,042,594	192,662	222,398	0	1,457,654	118,108	11,125
Marinette	915,091	602,420	74,005	147,172	0	823,597	91,494	4,647
Marshfield	743,020	436,290	78,560	77,892	0	592,742	150,278	6,178
Milwaukee	36,404,416	20,644,972	2,645,685	4,826,731	0	28,117,388	8,287,028	158,778
Neenah	1,316,510	748,765	133,456	162,690	0	1,044,911	271,599	8,287
Oshkosh	2,271,530	1,274,680	234,566	290,594	0	1,799,840	471,690	17,004
Racine	4,701,540	3,168,654	483,149	544,940	0	4,196,743	504,797	28,229
Sheboygan	1,895,658	1,229,097	138,760	271,480	0	1,639,337	256,321	16,885
South Milwaukee	846,839	635,314	60,677	117,240	0	813,231	33,608	5,888
Waukesha	3,420,028	1,998,997	342,800	404,496	0	2,746,293	673,735	12,941
Wausau	1,603,000	982,505	141,307	166,759	0	1,290,571	312,429	11,705
Wauwatosa	2,730,368	2,077,690	178,904	339,218	0	2,595,812	134,556	15,583
West Allis	2,953,160	2,471,993	190,224	345,421	0	3,007,638	(54,478)	19,178
Wisconsin Rapids	1,414,740	793,700	107,212	214,237	0	1,115,149	299,591	6,786
Subtotal	$ 93,865,169	$ 55,438,110	$ 7,869,135	$ 12,005,275	$ 0	$ 75,312,520	$ 18,552,649	518,810

TABLE 21 (Concluded)

CONDENSED SUMMARY OF 1984 OPERATIONS
INDIVIDUAL WATER UTILITIES

Utilities	Operating Revenues	Operation and Maintenance	Depreciation and Amortization	Taxes Other Than Income Taxes	Income Taxes	Total Operating Expenses	Net Operating Revenues	Average Number of Customers 1/
Municipal Utilities (Continued) Class B								
Allouez	$ 590,200	$ 444,612	$ 71,045	$ 63,319	$ 0	$ 578,976	$ 11,224	4,724
Ashland	589,593	417,509	38,395	78,125	0	534,029	55,564	2,854
Beaver Dam	699,077	418,198	63,796	74,398	0	556,392	142,685	5,288
Brown Deer	660,617	450,921	114,235	118,043	0	683,199	(22,582)	3,286
Cedarburg	443,888	220,967	51,419	60,335	0	332,721	111,167	2,718
Chippewa Falls	988,583	495,484	75,341	125,129	0	695,954	292,629	4,240
De Pere	695,346	355,185	77,600	112,290	0	545,075	150,271	4,832
Greendale	700,728	518,537	57,642	96,177	0	672,356	28,372	4,520
Menasha, Twn. S.D. 4	951,359	500,415	145,490	10,328	0	656,233	295,126	4,042
Menasha, City	1,507,682	1,091,066	90,562	122,598	0	1,304,226	203,456	4,948
Menomonee Falls	814,549	505,412	104,356	160,662	0	770,430	44,119	5,081
New Berlin	1,294,090	507,332	217,454	320,281	0	1,045,067	249,023	4,163
New London	210,147	195,994	26,889	43,009	0	265,892	(55,745)	2,266
Oak Creek	1,309,276	715,468	307,799	359,919	0	1,383,186	(73,910)	3,420
Oconomowoc	640,826	370,572	72,240	96,458	0	539,270	101,556	3,179
Platteville	572,457	374,791	53,715	69,516	0	498,022	74,435	2,644
Plymouth	431,548	334,045	19,499	39,649	0	393,193	38,355	2,173
Port Washington	716,889	461,030	72,494	101,265	0	634,789	82,100	2,887
River Falls	281,744	170,177	26,480	35,843	0	232,500	49,244	2,330
Shawano	381,026	189,239	42,135	48,533	0	279,907	101,119	2,938
Shorewood	495,213	496,501	16,009	28,771	0	541,281	(46,068)	3,551
Stevens Point	719,202	428,161	80,826	127,092	0	636,079	83,123	6,839
Sturgeon Bay	829,177	308,808	122,219	126,615	0	557,642	271,535	3,444
Sun Prairie	455,087	257,865	47,310	73,537	0	378,712	76,375	4,003
Two Rivers	621,972	421,385	64,931	84,759	0	571,075	50,897	4,626
Waterloo	100,178	53,167	8,226	13,584	0	74,977	25,201	951
Watertown	817,041	393,028	82,322	98,715	0	574,065	242,976	5,806
Waupaca	354,918	185,859	56,642	55,074	0	297,575	57,343	1,867
Waupun	403,807	312,670	46,617	42,933	0	402,220	1,587	2,814
West Bend	1,041,957	573,436	117,105	156,363	0	846,904	194,953	6,440
Whitefish Bay	481,412	319,801	70,549	44,889	0	435,239	46,173	4,794
Subtotal	$ 20,799,489	$ 12,487,635	$ 2,441,342	$ 2,988,209	$ 0	$ 17,917,186	$ 2,882,303	117,668
Class C 129 Utilities	31,371,970	17,034,028	4,133,116	4,500,045	0	25,667,189	5,704,781	188,679
Class D 354 Utilities	17,561,391	9,662,925	2,915,175	2,625,179	0	15,203,279	2,358,112	118,595
Total Municipal Utls.	$163,598,019	$ 94,622,698	$ 17,358,768	$ 22,118,708	$ 0	$134,100,174	$ 29,497,845	943,752
Total All Utilities	$169,781,272	$ 97,987,691	$ 17,990,044	$ 22,600,179	$ 575,312	$139,153,226	$ 30,628,046	970,839

1/ Includes fire protection, public authorities, interpartmental and other water utility retail customers.
2/ There were no private Class C utilities in 1984.
3/ () Denotes negative figure.

STEAM AND HOT WATER HEATING UTILITY SUMMARY

As shown in Table 22, steam and hot water heating utility operations in Wisconsin are not very extensive. Only three utilities rendered this service in 1984.

The Wisconsin Electric Power Company, operating in the city of Milwaukee, has by far the largest heating utility in the State, serving 529 customers at the close of 1984. Its net operating revenue for the year was $1,535,037.

Other communities in which heating service was supplied during the year included Waterloo, served by a municipal utility, and Rice Lake, served by Rice Lake Steam Corporation. Rice Lake showed a loss of $4,564 while Waterloo had a gain of $7,513 for 1984.

TABLE 22

COMPARATIVE STATEMENT OF REVENUES, EXPENSES
AND STATISTICS FOR WISCONSIN STEAM AND HOT WATER
HEATING UTILITIES
1984-1982

	1984	1983	1982
Operating Revenues	$ 12,322,975	$ 11,177,063	$ 11,461,606
Operation and Maintenance	8,605,293	8,089,070	7,938,268
Depreciation	763,332	756,246	746,188
Taxes	1,416,364	1,064,975	1,207,466
Total Operating Expenses	$ 10,784,989	$ 9,910,291	$ 9,891,922
Net Operating Revenues	1,537,986	1,266,772	1,569,684
Number of Customers	686	696	703